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Editorial

THE Editors find that a word of explanation about the present position of the Journal, or more fully, *Naval Medical Service* is due to subscribers.

It will be recalled that prior to the outbreak of war in 1939 the Editors of the Journal were the Professors of Medicine and Surgery at R.N. Hospital Haslar. When the 'batch' system ceased and the Professors went on detached Senior Medical Officers to R.N. Hospital Green Gurney they continued to edit the Journal from there, but when this hospital closed down towards the end of 1945 the editorial duties devolved on R.N.O. (S) and R.N.D. (S) at R.N. Hospital Haslar. It is anticipated that about the middle of 1948 when the new R.N. Medical School opens at Haslar, Home Admiralty Hospital, the office of the Journal will find a new and permanent home there under the editorship of the Staff of the School.

The many 'crites' during 1947 have considerably delayed the publication of the various issues. It is hoped that soon all will be on an even keel again and the 'Gutter's Gazette' will continue to bring to present and past members of the Medical, Dental and Nursing branches of the Service, news of professional interest, travel gossip, sport, appointments and promotions, etc.

The present Editors therefore hope that old subscribers will continue to support the Journal and that new readers will also give it both their financial and literary help.

BRIEF

OBSERVATIONS ON AMEBIASIS IN CEYLON

by
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Amebiasis has been a constant problem to members of the Services stationed in Ceylon. The disease is endemic in the native population of whom a high proportion were the casual cases (Barnes 1946; Brown 1947a) and who handle much of the food which is served to the European population.

It is now proposed here to relate findings which have already been fully described by other workers at the war war years and at the close of the last war. Our purpose is to present various epidemiological and clinical findings which emerged mainly from routine work in two general hospitals.

INTRODUCTION

Fig. 1 compares the incidence of amebiasis with that of the dysentery and undysentery diseases among Europeans as shown by the admissions to a combined Service hospital over twenty-one months in 1945-46. The sudden increase in amebiasis at the beginning of 1946 coincided with a fall in the number of cases of undysentery diseases, and was probably attributable to a more systematic method of investigation then instituted. Nevertheless, a considerable number of latent cases escaped detection and remained in Ceylon unrecognised (Stewart 1947a).

From the disease cards and records at these establishments as the different diseases arose in Ceylon were examined by the copper sulphate flotation method, and the incidence of cyst-passers is shown in Table 1, together

TABLE 1.—1. *SHISTOSOMA* Free Livers from *Ascaris*-contaminated Animals
FROM THE SERVICE

	Number of free livers	Cyst passers	Per cent	Average number of cysts (range)	Percent diagnosed as cyst passers	Percent diagnosed as free livers	Average number of cysts
<i>Trypanosoma</i> — late country not seen	208	30	14	7	40	60	20
<i>Trypanosoma</i> — 1st country 1st 1st	275	40	15	6	30	70	20
<i>Trypanosoma</i> — 1st 1st	228	30	13	6-12	30	70	20

*A further 14 passed single cysts.

The percentages diagnosed are derived from cyst-passers both symptomatic and asymptomatic.

TABLE III—AGE WHEN AN ILLNESS BECAME
CRITICAL LEADING TO DEATH

Age when	Cases (per cent)
Less than 3 months	3
3-12 months	8
12-24 months	23
2-17 months	29
17-24 months	17
24-36 months	8
More than 36 mos.	13
Total	102

CLINICAL FINDINGS

The clinical data is drawn from 146 European cases treated by two of the writers (P. J. G. A. and G. T. J.) in 1947-48. In each case, the diagnosis was made by observation of the patient in the home or in one or two cases in a mental hospital. All the patients were between the ages of 39 and 48 years and, so far as we could judge, were suffering from no medical disorder other than anorexia: all but one of the cases were male. The main clinical features of the cases are summarized in Table IV.

TABLE IV—MAIN CLINICAL FEATURES OF THE CASES OF INVOLUTIONAL ANOREXIA

Feature observed	No.	Per cent	Feature	No.	Per cent
Emaciation	108	88	Loss of weight	31	11
Constipation	34	10	Pyrosis	26	14
Abdominal discomfort	104	81	Lemniscate	31	18
Abdominal tenderness	78	59			
Blind in vision	49	40			
Trembling	38	18			
Nausea without vomiting	32	18			

Emaciation.—As might be expected this was the predominant sign. We have used the term to include all cases who had lost one or more stone (pounds) weight or who had more than three bowel movements per day. Through often mild at onset, the emaciation tended to be persistent or increasing: 112 cases had a history of more than one attack of anorexia; 14 of these giving a history of having been previously diagnosed as anorexia. These previous attacks were of an intermittent character in 36 cases with normal food intake in the intervals. Some complained of only a loose protuberant morning stool. Constant diarrhoea was rare and it seemed likely that spontaneous remissions were the rule in the earlier stages of the illness. 14 cases gave a history of constipation. It will be seen therefore that only 34 out of 145 patients (24 per cent) supposed when in these spaces was normal food intake prior to the complaint which brought them into hospital. In assessing such histories allowance must be made for the fact that few normal individuals escaped an occasional attack of diarrhoea whilst in the tropics. To us, the best pointer to anorexia seemed to be an increased frequency of anorexia or bowel habit.

Twenty-two cases were dyspeptic, 12 with blood, diarrhea and regurgitate purities. The remainder (73) were diagnosed as amoebiasis from the presence of *E. histolytica* cysts in the feces and from the absence of any other diagnosis inferrable to the gastro-intestinal tract. Of these, 31 had diarrhea but only two showed blood in the stools. A country residence of years and leucocytes was not a prerequisite.

Twenty-two cases showed no diarrhea. 13 of these reported only abdominal discomfort or dyspepsia while nine were identified by routine stool examinations. Five of the latter gave histories of diarrhea or abdominal discomfort.

Abdominal pain and tenderness.—These were common features in the dyspeptic, acute and chronic. The pain was usually associated with diarrhea and often appeared to have more than a connection of going to the toilet or to liver tenderness. In 12 cases (54 per cent) it was dyspeptic in character. On the other hand, tenderness occurred more often in one or both the flanks. Though often well localized, the site of tenderness was not necessarily related to lesions in the underlying bowel. Several cases showing signs on sigmoidoscopic examination had no tenderness in the left flank zone. Furthermore, some of the most acute cases complained of neither pain nor tenderness.

About 10 per cent of the cases had tenderness in the right flank area and right (37 per cent) such cases presented a clinical picture highly suggestive of acute appendicitis. Each of these cases responded satisfactorily to anti-amoebic treatment without surgical intervention. Frequently tenderness in the right flank zone was associated with a palpable gurgling rumor.

Other signs of intestinal dysfunction.—Surprisingly enough, nausea and vomiting were not confined to locally dyspeptic cases but occurred with equal frequency in milder cases showing cysts, *E. histolytica* in the feces and often with a history of chronic dyspepsia and abdominal discomfort. Constipation was noted in only mild, relatively transient cases.

Constitutional effects of amoebiasis.—Severe malnutrition and signs of nutritional deficiency were rare and occurred only in patients with relatively long histories of disease. However, half of the patients with histories longer than six months were found to be underweight and often far from fit. Whereas those with shorter histories were usually of normal weight and in good health.

A larger group of men seen among demobilized men in France did not show this close correlation between general condition and length of infection. The contrast suggests that the degree of constitutional disturbance in amoebiasis may be influenced by the duration of infection in the tropical zone. The effect of malnutrition, malaria and other parasites of the tropical campaign in this respect has been discussed by Perro (1941) and we ourselves have suggested by the rapid advance of the disease in undernourished Asiatic patients. On the other hand, with few exceptions, our European cases had revealed no single fact during the incubation of the disease and very few had experienced previous. This raises again the difficulty of interpreting the psychosocial individual variations in susceptibility to infection with *E.*

hypothesis. Routine chest examinations of samples of the European population showed that many individuals who had been repeatedly exposed to infectious respiratory viruses became cyst patients with or without symptoms of infection, others developed dyspnea.

Plasma protein estimations were performed by the method of Phillips and Van Slyke (1942), upon a random sample of 26 patients. The mean value given by this method for 17 unaffected controls was 5.4 gm. per cent (standard deviation 0.43). Of the 19 patients tested a showed significant degrees of hypoproteinaemia (5.0-5.4 gm. per cent), each of these being a severe relapsing case. The remainder (10) showed values 5.5-7.0 gm. per cent. Lowering of plasma proteins in certain cases has been obtained by Shoen (1944) as evidence of nutritional deficiency in cysticosis, but until the state of pre-suppurative hepatitis described by Rogers (1946) has been more fully studied such findings should be interpreted with reservation. Shoen (1947) has recently shown that alterations in the complex cholesterol fractionation test can be observed in cases of anorexia in the absence of clinical signs of liver involvement, and it is possible that hypoproteinaemia is a manifestation of liver damage rather than a pre-hepatic nutrient deficit disease.

Laminate was translucent in 21 cases (White Lily). This symptom, though difficult to score in a hot humid climate, was most marked in those cases with a long history of intermittent diarrhea and abdominal discomfort. Cases with shorter histories (less than six months) were not enough however. On several occasions the degree of laminate which developed, and the response to treatment which followed, was variable, treatment was ongoing. It seemed that anorexia, even in its early stages, could be regarded as an important organic factor in hepatic involvement. This symptom could sometimes be associated with a slight increase of secondary type, which was found in 10 out of 49 cases in which full blood counts were made. In these last cases the anemia was corrected at the end of the period of antibiotic treatment, without the addition of iron or liver preparations. The other common cause, were given ferrous sulphate as a routine. Such an anemia was not uncommon in Ceylon, however, and its precise significance in relation to anorexia could not be judged without a larger survey of the apparently healthy European population.

Fever.—26 cases had mouth temperatures above 38° F. and in most of these the process was mild and lasted only for 24 hours. Persistent pyrexia and high fever was associated with definite signs of hepatitis or, in one instance only, with massive typhitis.

Leucocyte counts.—These were performed upon 27 cases. A mild leucocytosis of the order 11,000-14,000 cells per c.mm. was a frequent but not universal finding in dysenteric patients, as has been observed by, Kawan, Rahr and Willoughby (1947). In such cases the normal ratio of polymorphs to lymphocytes was preserved. Cases of hepatitis showed a more pronounced leucocytosis (14,000-25,000 per c.mm.), but in two such cases the differential counts showed about 65 per cent polymorphs.

Cephalosporins.—The clinical course of anicteric dysentery are not depicted, but some of the early changes and the appearances during periods of remission are well defined.

CHANGES SEEN IN PATHOLOGY OF ANTIMONY

(1) Ruptured purplish red or purplish dots with an area (10) of epithelioid cells, often very small, in clusters at the periphery of the purplish dots. In some cases, the epithelioid cells yielded vegetative bacteria but occasionally we found only an indistinct type of vacuolate containing of macrophage whorls of myxoid material, clumped erythrocytes, epithelioid cells and a few macrophages and leucocytes. A day or two later, small coccinellids or a dipterous species occupying remained the *E. histolytica*. In some cases of this type, the *E. histolytica* found in the focus was acute or pyogenic.

(2) "Pin point nodules" (Kroeger, 1943), patchy hyperemia and localized edema were observed in most patients including, and subsequently, those exhibiting loss of cure. The changes were lost soon while a regaining symptoms but even amongst the affected persons, seemed to heal, but not was observed.

CHANGES SEEN IN ANTIMONY AND IN OTHER DYSENTERIES

(1) Bright red granular patches, obscuring the vascular pattern but bleeding readily when touched with a wet loop.

(2) Red rounded dysenteric 1-2 mm in diameter. Lesions in (2) were observed in the healing stage of both bacillary and amoebic dysentery usually appearing in one and change the submucosal edema of the latter. (3) were seen in a variety of conditions—in some of period diarrhoea before and after treatment, crypt and colitis cystica, in cases of cryptic dysentery and in treated cases of bacillary dysentery, in colitis for agnathocystosis with no symptoms and with stools macroscopically normal.

Certain other changes are worthy of mention. Late cases in the dysenteric state sometimes showed large ulcers with beaped edges, almost covered by a mound of loose mucus. The vacuolate abscesses in leucocytes and macrophages and showed in strong films a multitude of pleomorphic bacteria—coccid, some fusiform and spirilla. It is probable that in these cases secondary infection by one or more groups of organisms was playing a major role (Barnard, 1945).

One case showed an nodular mass in the rectum which biopsy proved to be a tumor of fibrous granular thickened and elevated by antimony. Another case showed a nodular mass on one of the valves, this was caused by disfigure after anti amoebic treatment and showed a similar histological picture.

DISCUSSION

In addition to the series of lesions, a case of nodular hepatitis was seen during the period of review in European personnel. In these two cases pathological studies were noted in the lung tissue, these became less marked after antibiotic treatment and may have been another manifestation of amoebicosis and possibly are not uncommon especially in patients with intermittent diarrhea.

A review of an equivalent number of reported patients has suggested to one of the authors (Barnard, 1945) that one of the most troublesome

regard to the state of post-dysenteric colitis which may persist after the colonic infection has apparently become resolved. The present available evidence up to the late 1950's described in this paper was too short for any valid opinion to be given concerning the frequency of this important sequel.

Secondary colitis has been had often been quoted as playing a part in the pathogenesis of amoebiasis (Wintrom 1929; Winney and Price 1931) and as a factor in resistance to treatment (Hargrett 1941; Deane 1945; Ogilby 1944). Amoebiasis may co-exist with a ileocolic infection. In fact, this was relatively common (Jordan, 1955; Maxwell 1949) and in some instances it seemed that such ileocolic infections tended to be extremely severe (Stewart and Leslie 1949). In our series of cases only four consistent ileocolic infections were identified (three Fleming case 1000) and in each of these *S. flexneriae* appeared only after the bacillary infection had begun to subside. These cases were not typically severe. Further dysentery, in fact, was noted there, usually, no more so than had it appeared that the primary infection of amoebiasis was not affected.

Apart from the ileocolic, the nature of the secondary infection is known and needs definition. It is possible that some degree of secondary infection plays a part in every case (Maxwell 1949) but clinical evidence of this is obtained only when the evidence becomes finally parallel. In our experience this occurred only in late and relapsing cases. It is well to note, however, the evidence evidence afforded by the fact that some cases of amoebic dysentery are treated by treatment treatment with sulphonamides (Bloom 1964; Ogilby 1944) and penicillin (Hargrett 1949). Evidence made from such cases yielded only organisms which are usually considered to be members of the normal intestinal flora. The increased prevalence of certain atypical coliform organisms may be of significance (Stewart 1949) but there is as yet no conclusive evidence that such organisms are actively pathogenic in human amoebiasis.

TREATMENT

In the cases described specific antimicrobial treatment was withheld until the parasite had been identified unequivocally. In one case there was only one circumstance in which a purely clinical diagnosis might be justifiable in a hospital patient, namely in the complication of hepatitis where already the patient was severely ill and where, in any event, the response to treatment was one of the less diagnostic guides. There was nothing original about our methods of treatment. A single course based at least three weeks and always included three or more of the standard measures. Emetine injections were given usually during the dysenteric phase or when hepatitis was suspected, sulphonamides or penicillin occasionally with penicillin, where the presence of flask pus in the stool suggested the presence of heavy secondary (bacterial) infection. EMB, quercyl and steroids were given for the remainder of the course usually carried out by the 'Lampard' method (Adams 1954). Resection was used in a few cases.

Quercyl or rheophan.—On the average, male patients were able to retain about 50 to 60 per cent. solution for six hours on alternate days throughout

the cages, the average macronema was 545 \pm 1, the range being 350-650 \pm 1. The macronema was increased gradually—500 \pm 1 was given on the last day and increased thereafter according to the patient's tolerance. It has been shown recently (Daly, 1947) that volumes approaching 500 \pm 1 are required to match the control, so it would appear that some of our patients failed to derive full advantage from the particular form of treatment.

RESPONSE TO TREATMENT

In treating these and other cases, we found that while most forms of treatment were capable of suppressing the macroscopic signs of disease, only a large course of cases with long follow-up and constant criteria of cure could enable one to give a final verdict on any given form of treatment. It is not therefore proposed from this study to compare the different methods. Instead, we have made a general summary of the effects of treatment in fig. 2 and Tables V-VI and VII.

Our criteria of cure were as follows (one month or more after treatment):

- (a) 12 stools negative for *E. bovis* (fresh and washed)
- (b) Faecalology—no viable larvae
- (c) Not more than three faecal impurities per day

These standards were fulfilled in 100 cases in the remainder the test of cure was microscopic. Tables IV-VII refer to only 100 cases.

The overall relapse rate was 21 per cent, immediate relapses constituting 15 per cent, and later ones (one to five months) 6 per cent. Of this 21 per cent, 24 per cent showed *E. bovis* in the test of cure specimens. It must be realised, however, that although 24 per cent were shown as relapses, 15 per cent show of definite and often considerable clinical improvement, though for one reason or another they failed to pass the test of cure after the first course of treatment. Only 4 per cent proved to be intractable, thus there was no doubt as to the value of treatment. The only doubt was as final efficacy (Table IV).

When relapses were analysed in relation to the severity of the disease (Tables V and VI) it was found that relapses were significantly higher among

TABLE V.—RELATION OF RELAPSE TO SEVERITY OF DISEASE.

	Relapsed	Cured	Total	χ^2	P % S.E.
Severe	7	8	15	7.15	0.01
Less severe	14	74	88*		
	—	—	—		
Total	21	82	103		

TABLE VI.—RELATION OF RELAPSE TO LENGTH OF DISEASE.

Length of disease	Relapsed	Cured	Total	χ^2	P %
Over 8 months	8	7	15	15.55	0.01
Under 8 months	13	65	78	0.88	0.35
At least 10 days (relapsed)	—	4	4	0.05	0.85
	—	—	—		
Total	21	76	100		

Table VII.—Response in Relation to Period of Onset of Asthenia

Phase	Relapsed	Cured	Total	%	S.D.
Dysphasic	10	20	41	87.8	5.1
Non-dysphasic	—	48	48	—	—
Total	10	78	88	—	—

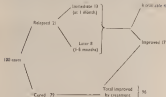


Fig. 12.—Diagram of the treatment of 120 cases. Immediate responders.

patients with a severe infection (posterior infection), carcinoma) and in those with longer histories.

The similarity in the response rate between the dysphasic and non-dysphasic cases is shown in Table VII. Under the conditions described, this suggests that a patient with dysphasia had no greater chance of cure as a case passing acute. It should be remembered, however, that all dysphasic cases received operations of one kind, whereas the others did not. Some dysphasic cases invariably showed the most extensive lesions and since the ordinary response rate was significantly affected by the severity of the disease (Tables V and VI), it could be speculated that the apparent discrepancy in Table VII was accounted for by the fact that many patients in the non-dysphasic group received no operations at all.

The custom of giving ten to twelve operations of one kind to every case has perhaps rightly been abandoned in many centres of treatment, but perhaps the pendulum has swung too far in the other direction. It has been shown that craniotomy is effective in relieving acute (York and Johnson, 1955), but it is a fact that aneurysms which are vegetative in lesions in the upper reaches of the colon become cystic by the time they reach the anus. Then there would appear to be a strong reason, in the tropics at least, for giving operations of one kind to certain cases which are not apparently dysphasic. Such cases are best

THE MEDICINE OF HISTORY

PI

Surgeon-Commander J. W. L. GOSFELL, M.D. C.B., R.N.

Many of the technical expressions of medicine and surgery have passed into popular usage with or without some loss of their original significance. One of the most curious instances was in which no professional necessity is at immediately apparent is the nursery phrase 'leggledy peggledy'.

Its origin is to be found in the Temple of Therapeutics itself where one of the Therapeutic preparations used was a purgative mixture known as *Hiera Pura* or the Sacred Elixir. This preparation underwent many changes in its composition at the hands of the various physicians, whose names became attached to their particular mixes, but in essence it remained an extract of aloes, its general character being put aloes in. It remained substantially the same for centuries and was given in the London Pharmacopoeia of 1731 in the preparation of Alexander of Tralles who suggested his variation in 400 A.D. The name *Hiera Pura* became transferred into English poetry as alliteration in which one can appreciate remote influence. According to Thompson's *The History and Art of the Apothecary* (1829) a preparation was still used in the Birmingham area during the nineteenth century by the name of 'Pakey stoke' while the *British Medical Journal* for 1849 reports a case of poisoning by *Hiera Pura* containing rhabubarber used to produce abortion. It is a natural childish transition from *leggledy pakey* to *leggledy peggledy*, the names being the one place where *Hiera Pura* could naturally be found in most frequent use.

Another modern expression is rather a late modern expression since it now seems to be going out of fashion is a bit of your thoughts. Like *leggledy peggledy* the bit is question but an air of propriety about it entirely suggested when one seeks its origin. 'Stalder-prace' was the phrase in exactly the same sense that we do to-day, but also was the Spanish expression *los Pinos* in the Latin for leg. The expression was used for a derogatory gesture made by thrusting the tip of the thumb through the fork between the index and middle fingers, held in the form of the V sign which is not only an aspect of victory, but is also a modern derogatory gesture. On making the classical Latin gesture its semi-manual significance becomes apparent. In Florio's Italian-English dictionary published early in the seventeenth century, under the title *The First World of Words* there is the following entry:

Pinos is leg. 'No' is, that with one finger over the thumb to signify 'No', is thus to hold a leg for one. 'Yes' is it for a woman's signifi. eye.

I was told by an Italian medical officer that the expression *leg* is still used vulgarly in Italy for the same sign as that for which the English vulgar and obvious abbreviation of 'yes' is used. It is interesting to note that usual debasement of both words has taken place in English and Italian words which were once used in cultured speech. It is tempting to assume that similar cultural and/or English debasement might be deduced from the word *five*. It is a curious

last few words come to line their original property and pass from ordinary speech into unacceptable slang. These inverted might cases so tend the opening lines of Ben Jonson's *Alchemist* by another example. A wonder too of propriety is to be found in the perfectly acceptable Elizabethan "poa," which will be discussed later. An example of a word that has risen in the world is to be found in *macabresque* whose original meaning is given in any standard dictionary.

Ben Jonson does not provide the happy hunting ground for the method *Antiquary* that Shakespeare does. In the *Alchemist* however, he mentions one example of barbarous medicine, which Shakespeare has overlooked. The use of dissolved pearls as an anodyne. Pearls were in great demand for this purpose too, according to the price list of 1680 quoted by Thompson that were sold by the apothecaries at from four to eight shillings a pound. Pearls were a long established remedy, being mentioned by John of Andrus in the fourteenth century. They were a constituent of the Chamber of Rens's powder (seventeenth century) specifically recommended for convulsion, plague and measles. In addition to the one ounce of pearls, this powder contained four ounces of the finest part of tips of skulls of men crabs (in 16, per lb.) one ounce of roser crystals apes (in fact, vomitories from the heads of apes) at 10, 16, per lb.) and musk (in 16, per lb.) stage (in 16, per lb.) 16, per lb.) incorporating all my directions of usage.

The numerous distillations were using such a word. Orbanus has contemporary writings show that in Rome one treatment was to drink the fresh blood of recently slain gladiators. (He also said that the same provided sufficient material for a study of anatomy and that it was severely necessary to church being removed for this purpose.) A seventeenth century author, Charon, shared this Roman belief in the value of blood in a more refined way, as the valuable salt of blood, which in addition to its anti-epileptic powers was of value in cases of dropsy, gout and skin diseases. Both Charles II and Henry VIII named themselves by preparing medications. Charles in particular being interested in anti-convulsants. His interests were really quite wide, including anatomical dissection as *Poppe's dissection*. A famous composition of his was the making of extracts of human skull, which became known as his drops. The dose was up to twenty drops used as an anti-convulsant. It is quite justice that this therapy was actually given to the king himself as he is dying from a sudden stroke, presumably a cerebral hemorrhage. Blood for this purpose could be bought from the apothecaries (using from eight to eleven shillings according to size). Paracelsus used a similar preparation, excepting that he provided these skulls in his prescription—skulls of men who had died a violent death and who had not been buried. No doubt the gallons and hogsheads of the period kept his dispensary well supplied. The use of skulls was natural enough in accordance with the doctrine of anatomy in cases where the head was obviously affected. It is less obvious why distillates of precious flesh or the urinary excretions of bulls should have been used for the same pathology.

The use of human and animal fat was very popular during the Middle Ages and lasted up to the end of the seventeenth century, long to be removed.

in the form of modern apothecary. One of the cases itself related with even in the interests of art seems to have been the pages, still open and then finally applied in the form of a hot moist application. In his apothecary, Paracelsus Olfen describes how he was cured of a metastatic foreign body introduced in his eye by the dropping into the eye of the blood of a piglet. No page, drug was used, mixed with honey, and applied as a hot dressing to relieve the pain of injury, calculus (John of Ardenas, fourteenth century). What must be one of the earliest accounts of blood transfusion is given by Paga in his diary on 11th and 12th November 1628, and 11st and 12th November 1631. The earlier dates are those on which he describes the successful transfusion of one dog from another. The recipient was killed consciously from one vein while receiving in another the donor becoming anaesthetized and finally dying. The 1631 entries record the transfusion of a mentally confused prisoner in poor circumstances, who was transfused with the blood of a sheep. Twelve ounces in two months for which experiment the author received twenty shillings. Paga does not make it clear whether the intra-arterial route was used but presumably it was carried out in that way as in the experiment with the dog. The prisoner afterwards gave a model in terms of his experience. A repeat experiment was attempted but Paga does not follow this up.

On the occasion of the dog experiment Paga writes: "This did give occasion to some gooder wishes, as if this blood of a Quaker be to be run in Archbishop, and such like, but, as Dr Croone ever says, if it takes, he of might use to man's health. For the sucking of bad blood by borrowing from a lower kind."

There are many medical references in Paga's works of no more in their own. We can be amused with him when having been ordered a pair of spectacles, he sends his physician a few days later at a demonstration the setting to show the anatomy of the eye, where he learns that his adviser is himself unfamiliar with such anatomy. Having bought a new wig Paga is very surprised as to whether or not wigs will remain as before, as the result of the plague, owing to the widespread fear that the hair of corpses dead from the plague would be used for this purpose and so spread the infection. That that hair was obtained in this way in the previous century is borne from Shakespeare himself:

Behold the golden tresses of the dead!
The sight of which makes more shivers than
To see a thousand slain, or one dead,
Embody'd in that flesh, with another's eye.

Shakespeare

There is another such reference in Act 3 scene 1 of *The Merchant of Venice*:

Yours, given to the Countess of Kent, were taken by Antonio do belonged to an orphanage, who she believed as the victim of crime. Writing to her daughter in Rome, 1631 she says: "The my vapours I take eight drops of essence of rose and continue in it, until action it has perspired out from sleeping. Apart from her vapours, mine was held to be of value in the treatment of drooping paralysis in moving labour and for the clearing of

So, for example, back to us to drive up? This opens with a somewhat (i) judge the problem. In quote it, from discourse of William Faulkner's *A Sound and the Fury* (1925), Faulkner suggests that this might be changed to (ii) or (iii) should refer to an unmarked case of change:

There had an excellent press on the radio, he is pleased. "I think we are made from a much different material than the quantity of our fellow citizens. I think we are perceived by the American people as the U.S. Government's most important ally, and we hope that press on the radio will be the stimulus to a more serious attitude in our third and fourth terms. It is primarily after 1960, I think, that we can begin to make headway in the United States. For tomorrow's newspapermen, we will probably have had a little more time to see how they have been doing. I think we will

There has been some talk that we might have a split in the

The shedding of the gallies felt, while more political and more of history. We have seen how Persecution required the death of men who had had a violent birth and had remained unbroken, so that in most of his martyrs came from the gallies. Another such martyr was material from them. His skin was spread to the six great stones in these towers in Union, which was gathered and sold as an amulet. The list of executed criminals was sold by both the seven stones and the apothecaries being used externally as an ointment for painful joints. Meanwhile, in the marketplace to quote last one of the many beliefs associated with this plant was believed to grow under the gallies where it was finished by corpse droppings. Such droppings or "poison" would be the criminals. Had it been such insects as seen in cases of death from ignorance

greater than is not true.
 Above the standard is global time
 Since the, there

100

The papers served another useful purpose, markedly speaking, in that they provided the official material for classroom study. Such documents were public affairs, as Pappas remarks, but, as a rule of the numerous regulations, the schools got only a couple of or so books a year. It used to be part of the clerk's duties that the books should be "maintained."

Another component of the watches' death in *Watchmen* was a death strangled into. Whether a deliberately strangled body, or one accidentally strangled by the cord, was meant is not clear. This ingredient is not pure *Macbethism*. The plot was merely quoting the contemporary idiom as to the constitution of the material used by watches to enable them to perform their magical transportation, soul transference, which laid for its fundamental base the fact of a mortified subject.

I do not think that the history of Elizabethan and Restoration medicine can be adequately studied without at the same time seeking and appreciating the richness of contemporary outlooks so closely were the two subjects interwoven at that period of our history. The belief in witches, wizards, enchantments, sorceries—and these what you will—was firmly held by the

most variety of individualities. The educated as well as the ignorant, living the nineteenth century particularly, the nineteenth century, in England. It was a republic with a more living, with superstitious customs and beliefs (things such as we tend to do) but a belief which affected their daily life and present and even diagnosis. Sir Thomas Brown, physician and author of *Acute Medica* is always quoted as a believer in the power of witchcraft—and he once gave evidence in court to that effect—but by his side could be ranged many others of intellectual attainment or renown, such as James II. who actually wrote on the subject of demonology, and Cromwell of the wasted man, during whose Commonwealth the witch hunting in England proceeded apace. Proof of the importance of witchcraft is to be seen in the abundant bibliography which has arisen. One of the best known is the *Compendious Methodus* of Gouan, published in 1685. This book can be described as a treatise of witchcraft, at the end of which are described the various signs and symptoms by which it is possible to determine if a patient is affected by demons or the like. According to Gouan, imaginary fevers of the lungs are produced by witchcraft, but it is much more interesting to learn that the same diagnosis obtains in a case even which the physicians are unable to make up their minds about the diagnosis, or when they keep sharing their opinion—that is a sure sign of Devil business. The opinions of Sir Thomas Brown are of more importance when we recall that he was the author of a curious work *Forcible Reasoning*, or an *Essay* into Common Sense in which he sets out to demolish such superstitions when as that the elephant had no knee joints, that the champagne has no air, that the voice of truth is poisonous or that the phloxes of that fabulous island the heathen, in brief, all of which beliefs are quoted repeatedly by Shakespeare. Another widely held notion was that of spontaneous generation of certain animals and insects. Expressions of this and shedding light on the lack of sanitation at the dwellings (in the case London house) during the Elizabethan period, a state of affairs considered by Erasmus, in the following quotation from *Henry IV., Part 1, Act 2, Scene 1*:

"Why they will stink in their beds and then we look on your chimney—and your chamber is swept, that like a house"

I have not come across any mention of fever used medically, but the records do not lack examples of a therapy equally interesting. Woodroffe appeared in the official pharmacopoeia and was still in use in the eighteenth century, in a dosage of up to 200 a day. William III was a distinguished recipient of such a treatment in June, 1702, when he was given only four and the price of thirty hog hoes at six a clock. He was suffering from the stone.

The appeal of the early writers has not only in the interesting material but to a great extent in their style. One of the most readable is the *Method of Good writing* at the close of the sixteenth century. Its attractive use of unadorned language, not without occasional deliberate language games one thinks with regard to our own stilted phraseology, and "refined common" style of note writing. The examples to be given now are chosen, however, for their interest rather than for their style. Writing of Thomas Woodroffe in *All Jack's Good* says

[illegible][illegible]

We leave the Independent Church for last, although it is not, as you are writing, his Survey of London at the same time as *Survey of Africa*. It is an account of the various premises of London of these buildings, churches, government and history, set out as the first place a Survey building ground for some of medical interest, with which, as fact, it abounds. Of particular interest to Survey medical officers is the account given of the hospitals of Southwark, and the conditions, named in 1740, amongst hospitals, some before

That no more borders or open walls should let us stay any single nation is a good reason, they say, why nations should be better.

Why not a lighter tan lamp very warm by hand but not by hand (over) at the elbow?

The table also shows how the response is distributed in the world's three largest regions.

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Just to keep any single person or institution out of the building, but the building has no doors closed and all the windows.

Don't assume everyone in the house agrees with their parents' love life.

The three facilities in Colorado have a wealth of religious, as well as other, services. The two hospitals in the state have a variety of religious services, but none is a formal, full-time ministry.

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

*See www.fishbase.org for abbreviations for scientific names and symbols. Symbols

Their remarkable, highly efficient way of work is the result of many other factors. One major factor is the human resources that back the services, and the way in which

The word burning, or bonfire, may have indicated the same device as that called by John of Ardenne *chevre pie*.¹ Shakespeare made unambiguous references to bonfires but no comparison can be made to the device to which device burning and chevre pie presumably refer. I think there is a play on words intended as "the use of them, she is as hell directly, and hence past and from Damp / For Hell and / As hell takes her" from *Two Noble Kinsmen* suggesting connotational infection. The line I could mean when I Ardenne's line, the diagnosis of which might be cryptogenic or symptoms as suggested by the resulting construction of connotational synthesis. Swedish

generally assumed the leaves spread more loosely, as the specimens manifest due to the nature of the materials in their very position - at the end of the compages in Italy, during the middle years of the sixteenth century. There are abundant specimens, however, in collections of leaves of the genus and another much earlier than 1480 of which double-pinn is not enough. Arteries given no illustration during the treatment by vegetation for this condition. The leaflets of both groups were under the burning parallelism of the Bishop of Winchester where London residence was adjacent to them. The name of Shakespeare's *Henry IV. Act II* where the Bishop of Winchester is treated as his residence with the leaflets is founded on the account given by Shakespeare in his Chronicle. The term 'Witcher' was applied to those affected in these leaflets.

Some called it a 'Witcher' and some
 call it a 'Witcher' and some about the name
 and it is not true, however, in the case of
 the name and the name.

The use of the word *gynaeceum* adapted to the leaflets, but it was formerly used in ordinary speech and writing as a word in common use. Some English and Shakespeare all used it. A further example can be found in the writing of the famous Milton who described *Paradise* in 1633 as 'the *Paradise*'. A modern survival of the word is found in the French for *double* *gynaeceum* which perpetuates not only the former property of the word but also the shortened leaflet and the modern folk here called in the proportion of the word flower. *Double* was only one of a large number of other plants which were thought to have the virtue of 'providing' some. So numerous in fact, appear to have been that including *Calceolaria* *Arctostaphylos* it was a relief to come across *Double* a plant which had the opposite effect.

It is an interesting problem trying to elucidate the pathologies of historical characters from the old European historical records and letters at times transferring from the lack of detail or from the same terminology used. Queen Elizabeth's death can be recorded in several thousand and other records. She had remained in good health both physically and mentally until some time shortly or so before her death when during the latter half of 1588 she started going downhill, becoming melancholic and 'sighing and' and at last 'she became decidedly worse in the spring of 1589' it being thought that her mind wandered at times. She was already ill in the middle of March but would not go to bed. On the 21st of March she became speechless and then went to bed, one arm lay outside the clothes, the other being underneath. She was able to understand speech and answered by moving one hand lifting it to her head. History does not record or set as far as I have been able to find, when laid by in bed and was presumably paralytic but it is to be assumed that with her speech rather poor it would have been the right hand which was in bed. She died the next day, having been in bed for only three days and having received treatment. She died aged 39 rather more than the usual expectation for those times and appeared to have escaped the heavy infection from which Henry VIII is supposed to have suffered. Contrary to her wishes her body

1665-66 Dr. Barrow, he makes a brief appearance in Shakespeare's *Antony and Cleopatra* (Act II, scene ii) as a physician who was associated with the king in a consulting capacity. It is curious to note that Henry V suffered from a more sufficient and blossoming Englishman's ailment, plague, but have remembered that posthumous comment that Henry's last night's ailment would have been applied to Tudor or before the statement which Henry made in 1599 was correct. Henry was the subject of Dr. Barrow's own - his study. He wrote that he and those others had cured a thousand more of you, in five years and that fifteen out of every twenty were admitted to that hospital had the infection. So perhaps, what all physicians and not just one, but many universal complaint.

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PLAGUE IN SHAKESPEARE AND PEPPY

BY

Surgeon-Commander J. M. L. GOSFELL, M.D., C.S.B., R.N.

The Science medical officer has little or no opportunity of studying the early writings on medicine, with very rare exceptions, repeats do not exist, and the original are for the most part hidden away in other passages or general libraries. Plague fortunately furnishes a unique example of a condition whose history can be studied from popular literature and easily available. I have in this article taken a few quotations from Shakespeare and Pepys to illustrate the interest and information from a medical aspect that can be gathered from these writers.

History is so badly taught as to be far, was so badly taught as my day, that the impression was laid as a schoolboy was that the so-called Great Plague of 1665 was an isolated event in English history, no epidemic which was ended by and as a result of the Fire of London in the following year. An attempt was made to show that plague was in fact endemic in England and had occurred many times in epidemic form with a severity approaching or even exceeding that of 1665. In fact plague entered so much into the life of the citizens of the Middle Ages, particularly during the medieval century that it threatened the economic existence of both individuals and the community at large. It is for this reason that we find so many instances, directly or indirectly, of plague in the ordinary literature and records of that period. It is not to be wondered at that Shakespeare, who died some fifty years before the Great Plague, should have made so many references to it. How a citizen, that that there is more to be learnt from the professional literature than from the family staff. These little are written by English professional men.

The causation of plague remained a matter of speculation, and the effectiveness of the measures in 1603 and the role played by the rat flea which had to wait until this century before being generally accepted. Throughout the centuries from classical times the infection was held to be conveyed either by suggested vectors, an effect of food or air. The poisoning of the air or ground was believed generally to be especially dangerous when it came from corpses, buried or otherwise. This belief was upheld as late as 1860 by Loughing and is set forward in his *History of Epidemics*.

It is generally held, now,

That it is more highly fatal, it being less prone

To this rank air.

Plague of Athens 4.10

Shakespeare here gives us not only the contemporary view that the infection of plague came from the air but, in addition, implies that the variation was an expression of selected wealth. The same idea was expressed when aphids spread in epidemic form over Europe at the end of the fifteenth century. A Dutch publication of 1498 has an illustration showing thousands of selected infection being thrown from the clouds from the person of an infected person on to spotted soldiers on earth.

Devising medicines, drugs to distill

And the art lying to a broken child.

Richard III 1.4.10

To fly or not to fly was the great problem during plague times: those who could did so. Parliament and the Law Courts around these centuries in London, the courts, whose presence meant work and maintenance to many working people, moved elsewhere. The clergy, left their pulpits while the better houses physicians followed their wealthy patients into the country. The countrymen were hostile to their unfortunate town fellow countrymen, not unreasonably so: many of the religious died on the way or through infection with them. In spite of these difficulties the roads were thronged with the dying.

I find all the town almost lying out of town, the churches and houses full, all full of people going into the country, and yet no sign of plague there.

The air in infection, which, to these points still agreed with the situation as well as the knowledge and custom of the time allowed. A plague order issued in 1545 stated that the sickmen should "cause their families to set the signs of the Cross on every house which should be affected with the plague, and there continue for every day." In addition to these signs were pointed, by a cross upon the walls: "Lod have mercy upon us." The removal of sickmen was originally provided in 1545 but by 1605 had been changed to red. The forty day quarantine period was later shortened to twenty days but reverted to forty during the epidemic of 1860. It is to be noted that the word quarantine is derived from the Italian for forty.

"What! Lod have mercy on us on these things

They are infected, in these times of late

They have the plague, and smother it at your door

These beds are visited, you see, and run

For the Lord's sake, say pray for us.

Love's Labour's Lost 4.1.100

Shakespeare, in using the language of plague in these two lines:

Plague send thy pestilence to this! The plague send to the
 Court, thou hast us in it; the city is infected with contagious
 sin. (1.1.110-112) many upon me, and thus, which cannot, make me
 clean. (1.1.113-114)

The truth is, there were the pestilential manifestations, which were taken to herald imminent death. In a letter, *Practice of Piety*,¹ these plagues are described as being red, yellow or black, the latter being the most deadly. In the following quotation it is possible that Shallopore was intending not plague but as plagues erupting on some ships there, red and black:

The red plague on you.

The red plague on the joint company.

Language 1-4

And I beseech you, good friends

Remember and remember 11-1

Now the red plague strike all these with it

And I beseech you, good

Language 4-4

I feel a little demand that this house and the girls, and even within every parish, were to be under an awful decree, that citizens bring the coming of all manner of death and the, according to the clock of the parish, which such deaths were due to plague or otherwise. It was not until 1665 that the city felt the plague. The figures for other centuries are small. The woman had a red, as her personal knowledge and observation of the corpse or from what the soldiers or sailors told her. It was not the statutory duty of the houses to make any contribution. As the man said, from plague rose spiritual and material sickness, which was given this task. They were never to receive a man, they were to be in the church that, that, was open to bribery. How a lord, control the members of the House of Mortality, where he was made the figure, was not a law. Since a house was the lord's and it was that up to a time, appeared in range that no individual left that house. The family were, I said up with the red and and the house had been here from 1665 to the mid-century, 1670 days. The inside a rather curved out the man, and the man, and no doubt was equally open to bribery.

So, I had a beautiful brother and

One of our world to receive me

It is in the way, making the self

And the long time, the words of the man

Remember that we were broken a time

And the selection, perhaps, and again

And the man, and would not let us forth

And we speak to Martin that was that

House of 1670 1-1

Household, I would share hands as a badge of office to many people in the country that they were potentially infectious.

With a, I would share hands with their red as their hands coming, how
 and the man, I would share hands with them that had not and not do
 the man 1-1

The first on House of 1670 who was, that up, was trying to deliver a letter but—

I remember that in some time that hen-chickens, and a peacock, the mistress of the house, which were to be kept burning in the streets, as also those on the subjects of the war and a picture dating from classical times. The hen made some noise, pecked some noisier materials, were covered by watchmen and had to be burned on three days each week at seven in the evening. In 1816 one cock fin had to be burned opposite every sixth house. Their value was supposed to be in the burning and drying of the air in addition to the purifying effect of pungent fumes.

To London to pack up men, things, and their I was then burning in the streets, as it is through the whole City. In the Lord Mayor's order, all the way from the south side of the Thames. —*Polya: 18th September 1816*

Similar measures were taken in the houses for which sulphur was widely used. The burning or steaming of herbs was a common procedure of medical domestic hygiene.

Being entertained for a perfume, as I was smoking
a study room.

Black side Street Madras. 1816

The roads, of pampas in a great respect with an all
Gordon to contain our situation.

British Architects of Madras 1816

Such herbs as sulphur, were grown in the Elizabethan garden, together with
scented herbs. Otherwise they were to be purchased at the apothecaries, who
were allied with the Company of Doctors, alternatively called the Poygers or
'spicers'. As was common with most trades they congregated their premises,
on a street called after a grocer by the name of Buckle.

One whole street called Bucklebury on both the sides throughout is
possessed of grocers and apothecaries spread the west end toward. —*Henry
Drury of London*

Like, vessels to use a sugar, and suitable Bucklebury
on sugar time.

Henry Drury of Madras. 1816

The inhabitants of the street, as also the teleconists, are said to have escaped
the plague infection. Telecon was regarded as a prophylactic, in accordance
with which the boys of Essex were ordered to smoke, being punished if they
did not do so, as the contemporary Madras writers on leucopneumonia. In Poyge,
affected by the sight of the red cross in Drury Lane was

put me in the conception of my self and my soul, as that I was forced to lay
some red tobacco in small and bottles, a herb tobacco, the apothecaries.

This belief in the prophylactic value of a pleasant smell accounts for the
'perfumery' of the apothecaries and also to present good fumes, for the
prevention of a miasma in the Poyge.

There were no assemblage suggested remedies or preventative measures escaping from
aroma in the streets, through channels to vapour. The latter remedy was a
survival from classical times and was forgotten by Paul amongst others. It
was alternatively called mud. We have seen how it was used to sterilise both
a man and horses. It was also used internally.

From her, I saw what I had done

And I saw my wrong all done

Underneath the sun

Plague visited upon a wretched multitude with a plague of vengeance. It
which brought me a vengeance

And I saw what I had done

(a) *Plague* (prose) as given in *Harvard's Herald*

The plague, I saw from the bottom of the hell that I had done, I saw from
the bottom of the hell that I had done, I saw from the bottom of the hell that I had done
the bottom of the hell that I had done, I saw from the bottom of the hell that I had done
the bottom of the hell that I had done, I saw from the bottom of the hell that I had done
the bottom of the hell that I had done, I saw from the bottom of the hell that I had done

In *National Hedge* 1875 1886 one of the few English physicians to
write on plague. He wrote an early warning anti-plague dictionary and worked
for years of north-western and English coast during his work. He took a
place of work, before and after his disease, and in the evening death himself to
"chance" covering himself on the ground that thereby he "concealed"
died and as a very learning through the years of night. Unfortunately his
disease 1875 is one of those plagues which is not ordinarily available.

England, an epidemic also worked throughout the plague of 1848 has
left an interesting account of the clinical manifestations of plague. In his
disease, which occurred, has been reported by the Epitheliological
Society of London because that those persons in whom the plague matured
and discharged had the best prognosis. When the plague occurred had a
was assumed that the corruption permeated the whole with associated dys-
functional effects. In fact with this belief was the practice of making immo-
bilization, wherefrom the corruption might discharge.

I am not glad that such a view of life
should such a plague by, and I am not glad
and I am not glad that such a view of life
should such a plague by, and I am not glad
and I am not glad that such a view of life
should such a plague by, and I am not glad

King John 1875

It will be seen from Shakespeare and his terminology of medicine to
illustrate the circumstances or actions of everyday affairs

They are a fool
A physician as a wretched multitude
In my corrupt blood

King Lear 1875

The sick were attended by nurses, and even by low class women with neither
knowledge nor experience. It is probable that the greater number of the persons
sick got no attention at all from either nurses or physicians. That these
nurses were uneducated we may judge from the contemporary writing of
the Dr. Hedges previously mentioned and from the Rev. Thomas Vincent,
who wrote *God's Terrible Hour* in the City 1867.

But what greatly contributed to the loss of people then died up was the
wicked practice of the nurses for they are not to be mentioned that in the most

HOSPITAL SHIPS IN THE SECOND DUTCH WAR

BY

DAVID STEWART

So far as can be discovered, the first country to employ hospital ships was Spain, and at least two of these vessels sailed with the Armada in 1588.¹ Certain amount of information is available about one of these, the *Santa Pater the Great*,² who was a ship of about 250 tons burden, and carried a crew of 60 men, 100 soldiers, and a hospital staff of 10. She also had on board goods of value to the value of 4,000 ducats, which was about £1,000 or £2,000 in English money. These details about this vessel are verifiable because she was wrecked, and the local authorities had to make reports on her condition to the Privy Council (Langhorne, 1894).

The English Government, however, was not interested in the type of ship and found little complement for them for some years. It is true that Shaw (1898) mentions that the *Goodwill* was used as a hospital ship in 1605, but nothing seems to be known about her tonnage or of the strength of her ship's company. Nevertheless it is of interest to know that this was the last ship of this class to be employed in the service of the Navy.

Again, through some casual references to it, we know that a hospital ship was attached to Poona squadron during the West India expeditions of 1664. The troops were landed at Hispaniola (St. Domingo) and behaved disgracefully; it must be supposed that some of these officers did not share them a very good example. One of these officers contacted himself so badly that he was brought before a court martial on a charge of cowardice. This man was the adjutant general of the force, a certain Captain Jackson, who somewhat luckily was only wounded and not wanted to fight. He had language to make the additional indignities of having his sword broken over his head and of being sent aboard the hospital ship as proof of him to work as a soldier to keep it there for the benefit of those who had been wounded through his cowardly conduct (Ainslie).

There is no evidence that hospital ships were employed during the first Dutch War. Although Commonwealth ships found it necessary to evacuate their sick and wounded, they were compelled to come into port to do so. This would have been unnecessary if hospital ships had been in commission.

Despite the fact that the government of the day did not estimate hospital ships of much use in warfare, their value was not entirely unappreciated. At least one contemporary writer of opinion said:

There is nothing more necessary than that every squadron of war ships should be well, richly, and plentifully furnished with these hospital ships; and that these ships should be appointed and manned before the first gun shot is fired, and that there is nothing so necessary as that, for the benefit of sick people, and every ship go forth with an able, charitable and his crew, to be constantly ready to assist

—During the last three years, war will furnished us with ships and places under circumstances of unusual stress, and it is to be feared that the necessity of a large number of ships being supplied to be maintained and equipped for the service of the war, will be a serious obstacle to the development of the hospital ship, which is, in fact, a ship of the line, and which will be a ship of the line in the future, but the war will be a great help to the development of the hospital ship. (H.M.S. 100)

The work of the hospital ship is not generally considered to be a particularly brilliant part of the history of the Royal Navy, and on the administrative side (types and style), but, good grounds for these complaints of the gross corruption existed in every department. Yet at the same time the Navy had a better system of disposing of the sick and wounded than any that had ever been known under the Commonwealth. It is true that the system broke down, but this was due entirely to the shortage of money, which was a frequent cause of trouble during that reign. Among other improvements introduced was the regular employment of hospital ships with the fleet on active service, and these proved of the greatest value in enabling warships to increase their armaments without having to come into port to get rid of them.

The first information that we have about these Restoration hospital ships is to be found in a letter from James Fergus, the Surgeon General of the Navy, to the Admiralty, from the Royal Charles on the 10th March, 1666, in which the hospital ship should be sent down to the fleet immediately, fully equipped for service (H.M.S. 100-1, p. 100). This letter was supplemented by a further two days in the form of William Love's reply, in which it is stated that the Council of War wanted three water ships and two hospital ships with the fleet as soon as possible (H.M.S. 100-2, p. 100). Obviously, some difficulty arose in getting these vessels ready for service, and later, 1666 May—the William (Commander) was still asking that the hospital ships might be sent to join the fleet (H.M.S. 100-3, p. 100).

The two ships that were selected for this duty were the *Joseph*, a vessel of 181 tons with 4 guns, and carrying a crew of between 50 and 60, and the *Legal Catherine* of 120 tons, and 32 men (H.M.S. 100-4). Probably the delay in the first place in getting these ready for service arose from their being at a distance where medical equipment was necessary for these new ships, and afterwards in collecting it together. At the same time it had to be determined what medical personnel should be carried. When all these points were finally decided it was laid down that the medical staff should consist of one master surgeon, assisted by three or four surgeons' mates, with ten or twelve barbers to act as cooks and nurses (H.M.S. 100-5). The surgical equipment and drugs which were put aboard the hospital ships in the surgeons' chests and the ordinary ship's stores and provisions were supplemented by the following articles to increase the comfort of the patients and to improve their diet:

- 1 or 2 dozen beds, mats, pillows
- 1 dozen 20 pairs of old sheets
- 1 dozen 10 pairs of old sheet waistbands
- 1 dozen 20 lbs. of fine lace
- 4 or 5 barrels of charcoal in each
- 12 or 15 pairs of bayonet for the ships (H.M.S. 100-6)

About 1 dozen pairs
 25 boxes, 4 lbs. —
 2 dozen bags, 1/2" cotton padding
 8 or 10 dozen 4-quart dishes and spoons
 About 2 dozen wooden bowls
 8 or 10 dozen earthenware basins
 1 dozen tin wash basins
 1 lb. washed brown thread
 About 2 dozen needles of several sorts
 8 or 10 000 pins
 1 or 2 pieces of broad tape
 8 or 6 pieces of narrow tape
 2 iron pans
 2 soap-dish-like dishes
 1 dozen tin dishes
 2 boxes or copper basins containing 4 or 5 each one
 2 dishes, each containing 2 quarts
 1 dozen tin washpans
 2 lb. Castile soap
 6 washpans, wooden
 1 quart tin, each empty
 1 or 2 tin basins covered
 About 2 quarts French lard
 1 or 2 lb. tin can
 2 tin basins, flat
 1 can — or, if about 14, a tin
 40 more needles
 1 quart oil candles
 4 lb. mutton
 2 lb. mutton
 2 lb. lard
 4 or 5 butter
 1 dozen quarts French oil (p. 1)
 2 wide combifurrows

The above list was published by Shaw in the *Harvard Monitor* for 1895. He then points out that although it was somewhat crude and vague, it showed a real advance on the assistance given to sick and wounded soldiers in time of war.

There is undoubtedly an abundance of suggestions hanging about the document: the exact numbers of any one article are not specifically laid down, and it would seem that here was a leaving room opportunity for some disinterested enterpriser to make a killing on the quest. It is possible however that this is the list that was used by the governors of the Barker Sargeant Hospital to the Navy Commissioners and contained their suggestions of the number of things required for equipping a hospital ship. No doubt when the appropriate authority put down on the list the number of things in charge three or four more clearly defined, and the officer responsible for their safe custody was left in no uncertainty as to the numbers of articles for which he had to account.

There is of course another possibility that must not be forgotten: hospital ships varied in size and therefore varied in the number of patients that they could carry. From this it would follow that the number of articles required

the two hospital facilities in one ship would be many more, if a hospital is considered an auxiliary vessel. For this reason the number in column 1 (1-100), recommending three ships, is to be rather small. The articles in this list may appear to be somewhat crude, but it has certain charm, notably, courtesy recommended by the respondent, solicited for an advanced dressing station on the 4th April 1799 (see also). Certain items were to change further comment. One would like to know why two doses were not considered desirable. This is not for them that occurs to the author is that they were not a special one had ships presented that before the days of modern anaesthesia the minute care of pain was a somewhat difficult problem, and that this was the main reason for the response of that were the case, the allowance of a very small amount of pain, perhaps one. It was possibly be thought that the tolerance of pain was rather generous, but it must be remembered that the patients used to the work were identical to those of the ordinary healthy man. The patients were made up mostly of, course, old men and old folk of debilitated quality. Spies would be available in dispatching their beds and making them more palatable and stronger to a soft man. Taking the list as a whole, I think that we can come to the conclusion that a good deal of thought had been given to, necessarily, in the matter, and that it was by no means an unconsiderable solution of the problem of how to ameliorate the lot of patients on board hospital ships.

The appointment of the surgeons to these two ships was made not without difficulty. Penn and Craven, obviously working in concert, as the letters mentioned above recommended a certain 'Dr Robinson' for the post of senior surgeon in one of these vessels. This suggestion did not get a desirable response (CSPD 1804-5 p. 181) and the Navy Commissioners asked the governors of the Eastern Hospital Company to nominate suitable candidates to fill the position of senior surgeons in the two hospital ships. On the 25th April the authorities of that company replied to the Commissioners saying that they had selected Edmund Hogg and William Smart for this work; they were both experienced surgeons who had been employed during the first Dutch War and were therefore fully qualified to undertake this important work (CSPD 1804-5 p. 184). That no doubt would have settled the matter if Surgeon Hugh Kite R.N. had not been out of a job. This officer had been unfortunate: he had been surgeon in the *Reynard* when she was wrecked in December 1794, and on the 25th April of the following year had been appointed by the Duke of York, the Lord High Admiral, to a similar position in the *Antelope*. Again he was unlucky, as he was unable to take up the appointment on account of illness (CSPD 1804-5 pp. 188 and 189). Whether because people were more for him, or because he had friends in the right quarter when these hospital ship appointments he was available he was made Master Surgeon of the *Ampl* Katherine, which was the larger vessel. This left now but one vacancy, which was given to Smart, and on the 25th May the Master and Wardens of the Eastern Hospital Company decided that the drugs and instruments supplied by Hogg, the apothecary, the surgeons Smart

of images (few of the hospital ships were submersible in both quality and quantity) (1911-12, 1914-15, p. 797).

For much of her life the hospital ship *Esperanza* joined the Fleet as a submarine (1897-1904), but the wounded at sea before the battle off Lissa (1866-71, 1866-71) and she was able to join with the remainder from that action. (The number of wounded was about 400 (Montagu), so no doubt the *Esperanza* was loaded to capacity, or even beyond it. 'We set sail for Harwich but unfortunately was held up by head winds and took six days to make the passage. Her supplies must have been pretty well exhausted because before her master surgeon, wrote to General Phipps to let him know that he had used up all his stores and required a fresh supply. He also required four more assistants and more cooks because it would appear the wounded were going to be kept aboard the vessel and not landed (R. S. P.D. 1866-71, p. 438).

Not a great deal of information about the activities of the *Esperanza* is available. For much the end of August she brought in about a second load of 300 men into Harwich (R. S. P.D. 1864-71, p. 241) and about the 28th September she took a cargo of 250 sick into Deal (R. S. P.D. 1864-71, p. 285) and may be presumed therefore that she was regularly and actively employed throughout the whole summer.

Less is known about the *Joseph*, but there is some evidence to suggest that she was not a very happy ship. She started back, as late as the 11th of June she had not joined the Fleet and James Watson—probably her master—was asking for accounts for the last 1000 pounds and 1000 guineas (R. S. P.D. 1864-71, p. 455). A little later she was definitely in trouble because her Master had refused to allow her crew to be mustered (R. S. P.D. 1864-71, p. 474). Taking all these things into consideration it is extremely doubtful whether this hospital ship did a great deal of work during the summer of 1864. Presumably she must have done a certain amount as the Government was charged with her care from the 1st June until 15th December (R. S. P.D. 1864-71, pp. 124-5) but of course this is an assurance that she was actually used. Plenty of governments have been charged with and have paid for things that were actually employed. One thing is certain—both the *Esperanza* and the *Joseph* had ceased to operate by the 28th October and that for a reason very characteristic of the period—there was no money to pay for them (Phipps) for as often happened in the reign of Charles II a paid scheme broke down for the want of cash.

During this war an interesting suggestion was put forward for the employment of a special type of hospital ship, steam-driven. This was because in England before in the Plague Year and later of the disease which broke into the hearts of men. There were no naval hospitals and the civil population refused to take in the sick because in case there were infected. Inevitably the captains of the 'plague' ships refused to receive on board men who had been sick on shore because this might bring infection into vessels under their command. To deal with this emergency it was suggested that a special 'plague ship' should be employed to receive cases of suspected plague from the

fleet and almost lost the difficulty of the civil population refusing to take them (Roelofs). Nothing came of this interesting proposal, which was made by the great chemist John Evelyn, one of the Commissioners for the sick and wounded seamen. The circulation men, whom their captains refused to take back, were packed or housed one in the captured vessels (J. S. P. D. 1665-6, p. 22) thus preventing deserting, and they were hardly if their captains should object, and agree to admit them into their ships. As little hospital ships had seemed to operate by the end of October, it became necessary, in Dutch some contemporary opinion, for the removal of the sick from these ships that could not go into port. For this purpose various types of small craft were employed, and at least on one occasion fireships took sick men from the fleet into Portsmouth (J. S. P. D. 1665-6, p. 24).

However, it evidently became obvious that things could not go on in this haphazard way. For on 22nd November 1665 Roelofs wrote to Papez that he had been told a hospital ship was absolutely necessary (Mörhagen, p. 90).

This latter must have had some effect, for although not a great deal was done, the *Lepel Anthonis* and the *Joseph* were continued in use, but at least the latter was in trouble. On the 15th February 1666 it was reported that two boats bore more than the 45 men for whom she was recruited, and this could not be permitted without orders from the Board (J. S. P. D. 1665-6, p. 245). The matter was seriously settled, because a few days later authorities were produced showing that her accounts had been cleared at the Vreedingh Office, and that she was ready to sail (J. S. P. D. 1666-7, p. 217)—and that on the last six boats of her to a hospital ship. It would appear that the long got poor value for her money when her services saved the *Joseph*—she was almost as terrible, and there is no evidence that she ever received any of the sick or wounded of the fleet.

On the other hand, the *Lepel Anthonis* was again at work and accepted as another important engagement, for it is recorded that she brought in one hundred wounded after the battle off the North Foreland in the beginning of June 1666 (J. S. P. D. 1665-6, p. 438).

From that date onwards there appears to be a complete absence of reference to hospital ships. It is possible, of course, that there may have been but, but it is much more probable that the accounts themselves were put off and that another system was adopted of evacuating casualties from the fleet. After the battle of the 16th July, small vessels only, were used to bring the wounded into port. The Dutch *Polisse* arrived at Yarmouth on the 26th July with 80 wounded men (*London Gazette* No. 74, 26 1666 July, 1666). On the 26th a boat load of casualties came into Dover (J. S. P. D. 1665-6, p. 361), and on the 21st a sloop brought 17 more into Aldborough (J. S. P. D. 1665-6, p. 359). On the 1st August, two batches took other wounded into Yarmouth (*London Gazette* No. 72, 1-6th August 1666), and so they go on, but there is never the slightest reference to a hospital ship. I think, therefore, that we must assume until further evidence becomes available that during the last year of the second Dutch War a change of policy occurred—probably on the grounds of economy, that the hospital ships were discharged, and that the evacuation of

Respect from the Fleet was done by mail vessels, which conveyed the messages to their destinations as quickly as possible, but had no facilities for treatment, such as were available in the hospital ships of the period.

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Chinese Notes and Cases

A CASE OF "DOPE" POISONING

BY

Surgeon Lieutenant-Commander R. J. R. OGDON, R.N.

The following case of a fortunately rare type is submitted as an interesting one and frequently met with in naval circles. It is always liable to occur, however, in our stations, dockyards and establishments where "dope" is used, and is published to emphasize that the precautions laid down in Admiralty Fleet Order 3478/45 must be rigidly enforced.

CASE HISTORY.—The patient, a naval aviator aged 20, reported on 24th June, 1946, complaints of dizziness and general malaise. He was, at the time, on duty, and had been using a small amount of "dope" for some time.

First history.—Since 1st June 1946 he had been using "dope" for some time, and had been employed for some months as a mechanic in the engine room, and during January and May, 1946, he had been granted leave with a minimum of pay, and "dope" for his own use.

On examination on 24th June, 1946, the patient was found to be in good health, and the following observations were made:—

On examination on 24th June, 1946, the patient was found to be in good health, and the following observations were made:—

acute anemia (hypochromic), a patient, the blood was made and centrifuged (1000 r.p.m.) and showed a normal hemoglobin content (15 gm. per 100 cc.) and a normal sediment.

Examination of the peripheral blood smear indicates hypochromic, polychromatophilic, and poikilocytic alteration of erythrocytes.

These findings are unfavorable about the character of the anemia¹ and the

Age	23 years
Color	Normal (see note 10)
Flexibility	Partial malleability and not bowed
Flexity	Spine, lumbar, normal method as method 10 (10)
Arterio-venous pressure	in a condition of 10

An unfavorable course of the patient's illness is that despite reports of work, 100-150 cc. of blood and a transplantation of bone marrow with frequency improvements in the blood picture have occurred. The previous blood with 100 cc. of blood appearing in blood that taken after these transplants. The weekly transplants of whole blood has transplants has been raised to 100 (10 per cent).

The interests of blood giving up to 200 cc. September 1946 had been increased to further days. By the end of August, 1946 his general condition was very good and he was feeling and feeling well and allowed up. On 14th and 15th Aug. and 10th Sept. 1946, the patient worked in some cases and the doctor in charge of this case advised me that the administration of 100 gr. of morphine and 1 gr. of phosphen by mouth given every morning (later larger) prevented this unpleasant, rapid to the transplants (10-15 hours).

The patient was discharged from hospital on 10th September 1946 and after a few days in the rest of the day 10th was quite well and was such later. He was sent back from his home in the evening by ambulance on 10th September. Arrangements were made for blood to be taken for a further examination at the hospital on that date and the result was as follows:

Hemoglobin	85 per cent
Red blood cells	2,400,000 per c.c.m.
Color index	0.70

The patient was discharged from hospital by ambulance the following day to continue his treatment while blood transplants by a Group D (IV) donor on 20th September. Follow-up notes by the ward hospital read as follows:

The patient was admitted on 10th September 1946 with a diagnosis of systemic anemia. He was feeling very well and complained only of slight heartburn on arrival.

Examination of the blood and abnormal detailed were normal, and no blood counts.

Treatment: transplants of whole blood weekly intervals. The patient is given rest and bed at intervals of 10 hours transplants.

During November 1946, patient had a blood attack with signs suggesting a patch of consolidation at the base of the right lung. After transplants on 10th December he went on further days and later on the 10th. He continued with periods of rest and alternating with intervals for further transplants until March 1947 when he developed a blood condition and state under which he was treated with phosphen. Also given constant phosphen. He was again discharged to rest later after transplants on 10th April 1947.

From the next October 1947 he had been having periods of further days and later after treatment with phosphen he blood counts and blood counts. The general condition remains unchanged. He has no complaints except for slight heartburn on

analysis. The average haematocrit value was 46.5 of a specimen of blood, the haematocrit examination of blood being done.

Blood Counts and Transfusions

			Haematocrit per cent	Haemoglobin per cent	Leucocytes per mm.	Platelets per mm.
10-40	2 pints	5-10-40	34.00-38.00	14	1.44	0.000
44-45-46	1½ pints	27-30-39	31.00-33.00	94	1.4	4.000
47-48	2 pints	12-15-45	4.000-5.000	72	1	4.500
49-50-51	1½ pints	14-15-46	4.000-5.000	100	1.1	5.000
52-53	2 pints	15-16-47	4.000-5.000	95	1.07	5.000
54-55	1 pint	26-31-47	5.000-6.000	70	1.03	5.000
56-57	2 pints	10-14-47	4.000-5.000	76	0.98	
58-59	1½ pints	11-14-47	3.075-3.000	80	1.04	7.000
60-61-62	2 pints	2-4-47	4.000-5.000	59	1.1	4.000
63-64-65	1½ pints	7-9-47	5.000-6.000	73		
66-67-68	2 pints	23-24-47	4.000-5.000	50	0.94	
69-70-71	2 pints	20-21-47	4.000-5.000	49	0.93	
72-73	1½ pints	20-21-47	5.000-6.000	60	1.0	
74-75	1½ pints	6-9-47	4.125-5.000	66	1.02	
76-77	2 pints	6-9-47	5.000-6.000	70	1.04	
		20-21-47	5.000-6.000	45	1.05	5.000

* There is an evidence of regeneration according to laboratory reports.

Discussion

It has long been known that benzene poisoning is a cause of aplastic anemia, the substance being toxic to the granular leucocytes and thrombocytes (Harris, Jones (Johnson and Perkins 1944)). An interesting point in the above exposure that this patient had with the terrible effects—an actual warning to all industrial users of benzene compounds.

A further point to note in all these cases is that, due to the scarcity of leucocytes the patient is unable to cope with infecting organisms. This patient sustained pneumonia but fortunately did not have too difficult a time in overcoming the infection although the treatment gave rise to some complications.

Acknowledgements

I wish to thank Surgeon Commander (Lieutenant R.N.) for permission to publish this case. Dr. Hocking of the Royal Cornwall Infirmary, Truro, for the pathological investigations and Surgeon Lieutenant Collins-Willis R.N., for the follow-up notes and laboratory reports.

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A CASE OF PULMONARY TUBERCULOSIS
PRESENTING AS A TOXIC CONFUSIONAL STATE

BY

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Toxic confusional states are notoriously hard to analyze, and the following case illustrates the pitfalls which beset the clinician's path, making a firm diagnosis exceedingly difficult at first, unless it can frequently be made only following prolonged observation.

Case history.—The patient is a Native American aged 19, who had served for two years in the Royal Navy, was a typical Latin of sturdy athletic build.

1943 (year 1944). He was admitted to the observation ward, 3003, Military Hospital, Maine, because he had been, "acting queerly and talking nonsense." He stated a week or so back that a man which he had on his neck was pained by the moon, and on one occasion tore up his cap and threw pieces of it on the deck. Before that he had always been quite normal and his medical history stated was clear. His strange behavior resulted in a diagnosis of confusional state being made on his ship, and he was sent ashore for observation.

On admission it was noted that his general physical condition was good, and a full set of satisfactory physical examination showed no gross abnormality. He was apyrexial.

His mental condition was summarized as this way:

Appearance. Trained looking but pale. Looking in a queer

stairway, fidgety and restless.

Manner. Faint and incoherent. Fully cooperative but inclined to be suspicious.

Speech. Worded but not extended. Inclined to ramble. In general made words as "go" and "come" repeatedly and was somewhat incoherent.

Thought. Meager.

Insight. Little.

Mood. Apathetic but fairly cheerful, inclined to be self

depressed. He was certainly mentally disoriented at times and thought he was working on a pulley.

Delusions. Apart from his disorientation, no other false perceptions or beliefs were discovered. His contact with him was poor.

During the first week following admission his mental condition was unchanged, but his physical condition had seriously deteriorated. He was still apyrexial, but his weight had fallen from 175 to 160 lb., and a further physical examination on 1943 (year 1944) showed physical signs of the right apex. His X-ray taken shortly afterwards suggested tuberculosis infection in both lungs, and yet his body was found to be negative.

Family history.—A reported examination of his psychiatric history revealed that he had contracted measles by hanging about a public square, thirteen years ago. The patient was the youngest of six siblings, the rest of whom were alive, and healthy; his mother also was alive and well. His oldest married son had been, but she was reported in Maine, and her health record was obscure. After passing the review in July, 1945, he appears to have taken his work and not to have been in any serious trouble.

On admission, the possibility that this condition was psychotic or schizophrenic was considered, but there were no typical features of either of these diseases, and when his lung tissue was discovered he was diagnosed as a toxic confusional state. In the absence

22nd March 1945. He was seen shortly before leaving hospital. He looked much better; plump and well-dressed was an evidence of professional efficiency.

2nd October 1947. He was seen again and although rather dissatisfied with his post here, took to a few sleep-walks his routine and planning to go to England. In agreement to do so well.

DISCUSSION

It is clear that the patient's lack of knowledge of English, which proved to be a complete, greatly hampered understanding and therefore diagnosis. Had more attention been directed to his physical condition at the onset, rather than to his more spectacular mental symptoms, the full diagnosis might have been reached more quickly. This case shows that a careful recording of involuntary experiences can be of considerable value as a clue to the true nature of an illness. The usual hallucination of the clock moving backwards was particularly suggestive of a toxic, confusional state rather than of a schizophrenic illness. By the time he reached hospital his disorientation and emotional disturbance was too great to gain much co-operation from him, and so the content of his hallucination was not discussed until he was so well that it mattered little except to confirm diagnosis.

The absence of clinical indications of toxicity was remarkable in view of his apparent high metabolism, as shown by his rapid improvement and favour able progress, which has been maintained, so far. Differential diagnosis by history is a schizophrenic reaction with a relatively severe tuberculous infection, or a toxic, confusional state with little evidence of intoxication apart from his mental symptoms, which were not reported in sufficient detail to be of much assistance.

REMARKS

A toxic confusional state occurring in a case of pulmonary tuberculosis is described and the difficulties of diagnosis are discussed.

ACKNOWLEDGEMENT

We wish to thank the Medical Director General of the Navy and Surgeon Rear Admiral G. D. Broadfield C.B. C.B.E. R.R.C. Medical Officer-in-Charge, Royal Naval Hospital, Malta, for permission to publish this case.

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A CASE OF DELIRIUM TREMENS

An Account by a Patient

WITH AN INTRODUCTION BY

Surgeon Lieutenant-Commander C. G. HUNTER, R.N.

One sometimes sees the results of alcoholic excesses in the Service, but it is seldom that a patient can give a clear account of his own sensory experiences during such a state and, therefore, it is thought that the following report will

be of some interest to readers. The patient was admitted to hospital on 7th January, 1947. No organic disease was found in any system and he was discharged to duty on 14th January 1948.

Nasal, subcutaneous and renal biopsy, were without evidence of psychotic episodes. His "level of" the reaction from October until New Year's Eve with a particularly heavy bout of drinking over Christmas.

His ship sailed from Remuera on 2nd January, and he was observed to be acting strongly, on 3rd January. He was admitted to the sick bay on Monday, 6th January, and it is very doubtful if he had any contact with the persons mentioned in his story. He wrote that account on 8th January, the day after he reached R.N. Hospital, Bermuda, by air. In this period he hardly believed that the incidents did occur but when met and further thought, stated that it must have been "imagined". He accepted an explanation of alcoholic poisoning as being the cause of his behaviour.

Ten Province's Story

"As the bells leading up to my being sent to hospital are of a rather rambling and workward nature when amplified by word of mouth, I am endeavouring here to condense them into a coherent and readable whole.

"This paragraph is I think rather badly composed but taken in conjunction with bells explained later must be substantially true. Some time before Christmas, 1947, the occurrence of a ship where the day was working under to the Japanese explaining that the ship intended to give a concert and social evening for the ship's company. The big event was to be a dance contest. The Devil or the Challenge, based on a "dance" being given the opportunity of putting up with the Devil or going to the audience. The ship asked the Captain to nominate someone for the contest (figure out) above all to keep everything very secret. They must also have asked his name and address of next of kin. My name was seemingly involved—without my knowledge of course. The Secretary must then have asked my medical officer left details of family, house, addresses, places of birth, etc. He must have explained her to society and asked her to co-operate. My medical officer did co-operate, as will be seen.

In due course, we were invited to the ship. I must say I think some interesting, could have been employed to get into this, if I had not attended going. The party was a great success and a great deal of money must have been spent on the dinner. All over the room were tiny metal snuffs and candles—a little candle burning everywhere. I discovered later that these were used so that the touch of a candle would consume them. Whether or not this was contributing to me, I don't know. But during the course of the evening perhaps I would glance usually at an object on the wall, as I looked away the picture appeared to move, but second glances when I looked again, nothing gained was. The women, passed on so many of them, arranged the table, glass, I drink and salinity. I don't remember being asked to eat for several days, then they ate, although several people asked my name.

I returned on board between 2000 and midnight, and stood at—on sleeping a hammock but lying, as I was not just downed off. I heard two people come into the room but did not open my eyes, assuming that were the Japanese or watchmen. Middle afterwards I was fully awakened by sensations and movements on the deck and in the ship's company. Also a ringing sound as though someone was lightly beating, and over the deck. As soon as I got up in bed all was quiet. This happened many times and then when I put my head back on the pillow a whispering voice strongly hit my mother's it seemed to me, came from the pillow itself, among was my ear. This is Mother, some have dear ones, I am. By now I was getting phony and after sitting up about three times had the same thing happening on lying down again for children,

I had also noticed a strange mark on the forehead of the police lieutenant who I recognized from a lecture he had given at the CERN symposium. I felt extremely uneasy as I perceived it glint like two shiny metal spheres and tried to get a closer look at it. I said: "Look here, the wound was located on the left side of the forehead." "How? What you're getting at?" "My eye was looking at you, I found myself as quickly as possible and returned to the scene. The wound was there when I returned and continued to drip sweat and pain." I think, on the top of my head and on the forehead. "I think I've got you down on the left side with me. We were there and then the CERN O and I noticed that while my head had been struck, it had been with me, there had been no external movement. Until the third I was hearing and seeing things that were like there and seemed a very strong impulse to stand up to do it or not. When a couple of questions he said me to be on my knees and while I did and he gave me two phosphenes (phosphorescence) which I found on the light and tried to go to sleep. Within a few minutes the wound was then open on the forehead - I think, a hole I noticed on the left side and was looking at the hole. The light was then about 1000. This is apparent when we have been there so I wanted the light on and then the CERN O and asked him for something sharp so it was still possible. The glow gave a barbed red another phosphorescence (phosphorescence) which I saw, heard and saw to sleep.

[illegible]

While walking through the street I felt that there was disagreement between the Union and those following back I felt that I looked from the Medical Office and may be on an important task. I remember some that the night in which I went in the next day was out of the hall of the party but the day before. I went to the hall and they were alone looking around in pairs. The crowd was, had been put on guard and so I went by. The ship was still the footings I heard must have been from the ship which was. When I began to lead in we saw that something was the only reason when I felt the ship was to get away from the water I upon the morning watch as a leader upon for compensation. I walked through on my first all that time. There were two boats outside I and I felt much better -- we went there and we were to go. At the time ship was in the harbor. Some of the Americans, who were called, the British were in the second row.

To return to the night of the party: "After a very quiet and lonely day, the Americans returned me back into the hall and spent on them the interesting and painful discussions, as always into some position like the my bed. Having a little bit time to spend alone to my car and taking me time to pass into a plant and to me. After that I was again surprised—the time I do not know, but the meeting passed as time of my eyes. One

to hear it on a cassette tape. I listened to the whole lot, all that day and evening, with the phone on. It is a sample of Jewish folk songs, when I collected my mind and pulled together everything, from "I believe I saw the Mother of God" I pushed my bag on "Wednesday morning" which is so beautiful. I finished and I turned it up, and when I heard I had a 10, and a tape, and a lot of friends from the rock levels Club Party Office. About 1990 he came, called again and told me for a day, I thought and a lot of friends and told me to be there, that I personally, recorded it for me.

At about 11:00 I went down to see them, a hairy shop in fact by mainstream standards. They had appeared to be an old man and not a married couple. The only sign to hint from the physical evidence of a few feet, except the a speckled in the among environmental and speak at an angle but on the ground. The whole other was the old man, his children, and the lights, to show and understand that it is totally possible to discuss the fact of a human being, a very close question. I was soon able to confirm that the father, even though a married couple did not exist, from the fact in the environment and garden, even if, but also not in the mountains on their path. The morning, about 10:00, when, at about 10:00 of the time, I suddenly called up to my first children to be seen, and said: "How, a first [I] was just, at the same time suddenly nothing was paper under the sheet." Being a little more yet of what it was not clear. I took up and had intended to get a magazine for me really to give him, more than. When I looked back the officer and the paper had gone. There being a series of questions for groups of about 100 persons at a time, each person about two or three questions. Several women took part and two others at the 100th March 1960 (the first night) at 4:00. Between that and what I could remember. On one occasion a group of 10 (I think) the children, aged about 12-15, were there at 10:00, at any condition being that I could see them in the room.

[illegible]

1. *Journal of Management Studies*, 1996, 33, 1, 1-14.

On coming through the screen, I find that I have gone rather wrong. On the occasion of my first visit to the club here, I remember that even after three glasses of wine, tablets and a brandy I found unaccountably, only one or two when I went down to the boiler room. Another very peculiar fact about this is that in the boiler room, during that evening visit, four of the women speaking to me in friendly tones, seemed to belong to friends of mine in New Zealand.

In the language segment, I have tried to be as accurate as possible. In events of doubt, I have chosen the "official" written text. I don't think there is much needed to show here, but this is the text:

FRIDAY NIGHT SCIENTIFIC SECTION

[illegible]

A good example of this rare and interesting compound anomaly was recently brought to light during the routine biographic examination of Royal Navy Vice Admiral

During the examination of a strip of 35 mm film, my attention was drawn to the cardiac shadow in this case when it was seen that the normal aortic knuckle appeared to be absent and there was an unusual shadow in the right of the sternum. The individual concerned was recalled for further investigation, when a routine postero-anterior radiograph was taken and aortic aneurysmectomy with a bypass below was performed. These pictures gave the characteristic features of persistent right aortic arch.

Ultrasound examination was negative—he was a healthy youth of 18½ of unusually good physique.

DISCUSSION

In the development of the cardiovascular system six pairs of arteries connect the paired dorsal aorta but are not all present at the same time:

Emb.	Dorsal Aortae or their branches	
	Right	Left
1st	Truncus	
2nd	Septal artery	
3rd	Common carotid artery	
4th	(1) Intercostal artery (2) Right subclavian artery	(1) Aorta arch (2) Origin of left subclavian artery
5th	Ductus arteriosus	
6th	(1) Pulmonary arteries (2) Ductus arteriosus	

In this condition we are concerned with the fourth aortic arch which normally on the right side gives origin to the intercostal artery and the commencement of the right subclavian artery and on the left it forms (1) the adult aortic arch between the origins of the left common carotid artery and the end of the ductus arteriosus and (2) the origin of the left subclavian artery.

In the event of closure of the fourth left arch, the resultant of circulation results unless the corresponding right arch persists—when the ductus arteriosus and the fourth right aortic arch remain patent thus forming the whole aortic arch—an adequate blood supply to the lower part of the body is retained and the related manifestations of the condition are not seen—on such cases, the fourth left aortic arch is represented by the left subclavian artery.

REFERENCES

The classical Koser agreement are:

- (1) A shadow in the right of the sternum directed towards the right sternal-vascular point.
- (2) Absence of the normal aortic knuckle.
- (3) Presence of a retro-mediastinal aortic knob.
- (4) Displacement by (c) of the mediastinum and trachea to the left.

These features are clearly seen in Figs. 1 and 2 and are self-explanatory.



Home of the Service

CHRISTMAS, 1947

Y AND DANCE R.N. HOSPITAL HASLAR

The Y & D Committee R.N. Hospital Haslar and her capable assistants were in charge of the evening's successful attempt to merge from the gloom of winter's twilight into a festively-dressed ball upon which no one was less, despite all the obstacles that clothing changes, shortages and emergency ration allocations could place in their path.

The ball was held in the Y & D Quarters on 24th December, 1947, and took the place of one of the usual very popular guest nights which are held each month. Those present at the function included the Medical Officer in Charge and the J. A. Gifford, Principal Matron and representatives of the Medical and Nursing Sisters' Messes.

Contributors to the festively-dressed competition displayed considerable ingenuity and a very wide range of costumes, many of which notable for their simplicity of design and choice of material, testified to the craftsmanship and goodwill of all who took part. Impromptu was the keynote of the festively-dressed parade and the adjudicators found them task a very difficult one. Approximately 200 people took part in the parade but, despite material shortages, scarcely two contestants were noticeably puffed.

Hostess who attended the event will probably recall several noteworthy and distinctive dances. It is regretted that space does not permit of a detailed description of them all, but those who considered themselves among the prize-winners certainly deserve special mention and reference must be made to "White Night" the waltz, "Quality Street" the remarkable jive, "bebebebe" (Lemon Meringue, effect produced by a local North Atlantic jazz subsequent song and dance) the expertly guided waltz, the dance with gypsy music "Tutu" the gal, "Bend Sin" and the top "Y & D". Lastly, those truly delightful specimens of the newly created "gipsy" species.

CIVIL WARD R.N. HOSPITAL HASLAR

In the ward (closed patients, others closed) on Christmas Day rounds we were greeted by the good wishes of the patients, concentrated on the viewing box.

"A Pleasant Christmas and an A.P. New Year."

ADMIRALTY FLEET ORDERS

1948—Periodical Special Examination of Officers R.N. and R.M.

(N.D. 3417/12—1-1-48) (1947)

The annual medical examination of officers R.N. and R.M. (including M.D. & S. Officers and nursing officers) continued in accordance with A.D. 2264/17 to include a examination by a dental officer.

[illegible]

Department of Neurosurgery, University of California, San Francisco, California 94143-0508, U.S.A.

Department of Neurosurgery, University of California, San Francisco, California 94143-0508, U.S.A.

any P.D. (i.e., Δ may be negative, zero, or positive).

and the second is the fact that the model is not a good fit for the data. The model is not a good fit for the data because the data are not normally distributed and the model is not a good fit for the data because the data are not normally distributed.

1000

- (c) How many of the 1000 students are in the 1000th grade?

[illegible]

If the necessary material should not be available, a full analysis given by the manufacturer in the literature for some other element is acceptable.

They are maintained in one building in which they are in good maintenance. Pictures of these medals are given in the case of Royal Warrant. The arrangements are in the main done between the Council of the R.N. Service and the War General Staff. Service Operations.

It is monthly report to be forwarded to the following governing authorities of all men developed on the members of the Community Officers under the Code. In the case of any man developed under paragraph 1 (b) it is not to be a first submission report, giving details of the disability and signed by the members of the medical board in which it is included.

3. When discharged under paragraph 1 above and not when ages have been submitted to the *tribunale* for dismissal, it is not to be taken up. On discharge they are to be paid up to date but no interest at par is to be allowed nor are they to be allowed other clerical costs.

⁴ Both challenges for medical deficits demand a change in each of us: we may have been misled up, or perhaps, misled up. But it is the high definition in the opinion of the Commission of the Office of the Secretary, to enable them to go home, demand that we not be to receive a place of their priority. But in that way, to be understood as the same individual with a disability.

3. When one or more individuals during their period of membership in whose names are deducted either are dead or have died, we have to transfer forward to our next year when we are available being charged on the next year, their late being dead, with its percentages with 3, 6, and 4% (Article 107).

Table 1

[illegible]

4. The remaining flexibility of the demand for affordable housing out of the end of right to life must be in some affordable cases, a demand for building systems will be taken and a minimum level, etc., will be provided by the central bank.

8. In order to determine which cases are eligible for extended collection on any calendar (paragraph 3), a preliminary medical review will be held after two months. Patients of certain categories (a) are exempt from any hospital or nursing care. The duration of exemption, or hospital care will be decided, at the next hospital meeting the preliminary request to the Medical Director General and Supply Officers and depends on, and also be extended the current will be given full satisfaction by the hospital authorities.

ii. The above arrangements will apply to serving officers and ratings of the following categories:—

- [illegible]

T. Detailed instructions for carrying out these measurements have been prepared and should be at the hands of all concerned in the operation of the scheme. Copies of the instructions are held Reference M.D. 2228 at the camp, the minimum an expert in the Medical Department General of the No. 55, French, General Staff, (London, St. James, Park, London, N.W.1).

1450-1451

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1994—General Manager—David J. Whelan, Dallas, Texas

[illegible]

As from 1st January 1988 completed dental records on 1,000 16 year and 14 year subjects of Royal Marine School were retained until the date they were notified to be exempt due to be sent for fitting in the Reserve Dental Program. 1,520 14 year Old who is to retain Records in 1988.

2. Dental records in respect of Royal Women of the rank captured before the January 1945, who provide their developed pictures are to continue to be sent to him, to the Joint Dental Services of the R.C. Services in which the man is stationed.

[illegible]

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Search protocols for most materials are available online at the University, a range of on-line databases, the protocols and more at: <http://www2.utoronto.ca/~david/Database.html> is available.

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method of period hygiene within the establishment, relations with external medical services, medical aspects of A.B.F. regulations and education of personnel in matters of health.

- (13) Examination of all new entrants other than those already examined under arrangements made by the Ministry of Labour.
- (14) Examination of new entrants to the, first post transfer to establishment for 1 examination by a doctor of 90 days in connection with claims for compensation for injury involving the report on Form 15-20.
- (15) Examination of personnel for transfer to other parts or establishments.
- (16) Supervision, as of early life and application of Special 11 regulations in relation to duty following sickness.
- (17) Control examination of workers engaged in food processes and other groups in order to detect, early of injury to health is required by statutory regulations or laboratory examination, going to the to such examinations, are carried out by the treatment, common appointed under the Factory, Act.
- (18) Medical examinations and examinations of personnel appointed for duty, abroad, and their families.
- (19) To keep established records of the work as required by statutory regulations or Admiralty instructions.

2. Reorganisation will be made as from 1st July 1947 on the undermentioned scale, according to the numbers of personnel employed at the establishment (a) —

For numbers from	Per annum	
	A	B
100 to 170	27	0
171 to 225	33	0
226 to 310	41	0
Add for each additional 50 or part thereof up to		
1 000	33	0
1 001 to 1 500	45	0
1 501 to 2 000	55	0
2 001 to 3 000	73	0
3 001 to 4 000	83	0
Over 4 000	90	0

3. Payment will be made of 4 shillings to 6 shillings by the Director of Navy Accounts and commencing with the quarter ending 30th September 1947, officers on charge of establishments concerned are to forward to the Director of Navy Accounts (Branch 6) as soon as practicable after the last day of each quarter, a statement showing the average number employed under the rates from which they are paid, of medical staff of all grades based on the books of the establishment during the preceding quarter. This return should not include personnel who although based on the books of the establishment are working on detached duty or circumstances under which the medical officer is not responsible, by Ship or Naval Marine Police. For attendance on Royal Naval Police, the medical officer should be instructed to refer to them rather than to R.N.P.

4. In 1947 in which period, the tables have made ready by establishment, particulars of payments made on report of the quarter ended 30th September 1947 are to be forwarded hitherto to Director of Navy Accounts (Branch 6) by whom the necessary adjustments on the operations of the year have been, 1st July 1947 will be made.

(S.P.O. 5000) is cancelled.

1946 — Reorganised Dental Office
(S.P.O. 1770) — 1st Oct. 1947.

The practice and distribution of undermentioned forms referred to in A.B.F. 84-27 will not be changed until January 1948 and copies should not be demanded from the Director until then.

(S.P.O. 5000) is cancelled.

1947.—Workshops of the Bureau of Industrial Hygiene

(L. 13645-17—17 Jan. 1947)

It is the general practice that workshop at University establishments are started with 1946, but when there is a reasonable prospect of recovery and return to duty.

It is suggested however in view of the national nature of industrial hygiene (and the activities of professional tuberculosis) (see A.P.H. 466/46) that this regulation should be applied to apply to the case of workpeople who are found to be suffering from tuberculosis and are required to be absent from duty in order to obtain the necessary treatment.

It should be evident from the initial medical report that there is little prospect of an individual workman's recovery and return to duty, for a very long time, the man should be kept on the books of the establishment and passed each leave as accordance with the provisions of House (Society) (S.S. 13/46) Article 331. In the case of a third workman dealt with strictly literally under paragraph 3 of that Article arrangements should be made for his discharge only if after a period of absence which can be reported as not permanent, on T.B. cases, it is still not possible for the medical officer concerned to form any opinion that there is a prospect of the man's recovery, and only return to duty for such a time, the man must be taken to have in mind the recommendation for employment when he is entitled to go to work duty subject to there being a suitable vacancy at the time, and he should be entered of the list when return of discharge is given.

4. Details of all cases of professional tuberculosis, whether diagnosed as a result of a man's employment test or not, are to be reported to the authority for medical assistance to the Treasury Medical Dept. The following procedure should be followed:—

(1) As soon as an industrial employee is certified as being suffering from this disease he should be sent to Form T 334, with a request that he should have this completed by his or his doctor (and tuberculosis officer or consultant medical officer as appropriate). On return, the Form is to be forwarded together with a copy of his note (as recorded in Form T 333) to the Secretary of the University (Labor Records Dept.).

(2) Further copy on an alternative matter is to be obtained on Form T 333 and forwarded as above.

(3) When completion of duty is anticipated, and before this takes place a report should be obtained on Form T 335 and forwarded as above.

(L.P. 17 2842/46)

1948.—(13-45) of Tuberculosis for Naval Airborne Personnel

(S. 1-17 2475/47—14 Jan. 1947)

Paragraph 3 of M.R. and A.I. Article 133 and 34, and A.I. Article 145A have been cancelled by the instructions contained in A.P.H. 16/47 (16/47)

(L.P. 17 2842/47)

1949.—(13-45) of Tuberculosis for Naval Airborne Personnel

(S. 1-17 2475/47—14 Jan. 1947)

The immediate object of vaccination is to introduce vaccine virus into the deeper tissues of the body where a firm and efficient scar takes place most easily. The best method of doing this is the multiple puncture technique which has several advantages over other methods, e.g. it is almost completely painless, involves no incision in the skin, the body is not contaminated with virulent vaccine fluid, maintains a rapid temperature and causes a higher proportion of "takes". As soon as the day of receipt of the Order the multiple puncture method of vaccination is described below, as to be adopted.

a. Preparation of the skin.—The skin is to be prepared should be well cleaned with soap and water and made thoroughly dry before the light is applied. The test may be made with glycerol (see 133) should be taken care to rub on vigorously as to damage the epidermis, and thus counteract the development of secondary vacuol (strictly hand-operated alcohol or other agents should not be applied.)

10. Yellow fever inoculations can be carried out at the named establishments mentioned in paragraph 9 and also at the following establishments:—

Western Research Institute, 161-170 Strand, Road, London, W.C.1.

(All applications for the Yellow fever vaccine, to be made through the President Academy Medical Board, Queen Anne's Mansions, St. James's Park, London, S.W.1. Tel. 976, 9444 Post 674.)

Agency of Health and Department of Health for Scotland centres:—

				<i>Ref. No.</i>	<i>Times</i>
Newcastle	Regional Blood Transfusion Centre 74 Jesmond Road Newcastle-on-Tyne 2			2963	1-3 p.m.
Leeds	Regional Blood Transfusion Centre, Westwood Park, Galley			2959	Tuesday 1-3 p.m.
Oxford	Regional Blood Transfusion Centre, Churchill Hospital, Headington, Oxford			2934	Wednesday 1-3 p.m.
Perth	Regional Blood Transfusion Centre, Southdown Hospital, Perth			2945	Thursday 1-3 p.m.
Cardiff	Regional Blood Transfusion Centre 18 Newport Road, Cardiff			2936	Monday 1-3 p.m.
Blackburn	Regional Blood Transfusion Centre, Blackburn Royal Infirmary, Oxford Road, Blackburn			2932	Friday 1-3 p.m.
Birmingham	Regional Blood Transfusion Centre 17 Mayfield Road, Birmingham			2933	Thursday 1-3 p.m.
Plymouth	Regional Blood Transfusion Unit Centre, City General Hospital, Plymouth			2928	Not yet fixed
Southampton	Paediatric Department, Royal South Coast and Southampton Hospital, Victoria Street, Southampton			2921	Monday 1-3 p.m.
Edinburgh	Bacteriological Department, Edinburgh Royal Infirmary, Lauriston Place, Edinburgh 2 (Dr. W. H. Lewis, Superintendent in Charge.)			2924	Monday and Wednesday 1-3 p.m.
Glasgow	Public Health Clinic 25, Cathcart Street, Glasgow, C.1.			2935	Friday 1-3 p.m.
Aberdeen	City Hospital Laboratory, City Hospital, Topham Road, Aberdeen			2937	Thursday 1 p.m. or by post as arranged
Western Island, Belfast	Quarantine Station, Belfast, Emergency Hospital, Victoria Park, Belfast			2938	

At least one day's notice, preferably in writing, should be given to these centres before attending for inoculation.

- (a) The Commission will complete the full period of two years as a result of providing the pension not due on their own default will be paid with the gratuation on a permanent basis.
- (b) Officers engaged will be transferred to the Royal Navy list will be allowed to count 1 year R N R service for purposes of pay and promotion. They will also be eligible for an increase of seniority in respect of well hospital time up to a maximum of 12 months with effect from the date of the commencement of the short service engagement.
- (c) Officers leaving the Service on the expiration of the short service engagement will be placed on an emergency list and will be liable for service on war or emergency during the subsequent two years.
- (d) The date of the commencement of the short service will be an Admiralty Certificate and will accordingly be the date of acceptance of the application.
4. Applications are invited from R N R medical and dental officers with over ten months service. Each application should be forwarded with the recommendation of the Commanding Officer together with a medical certificate that the applicant is medically fit for naval service.
5. Attention is drawn to the fact that such officers will be eligible for transfer to the permanent list of R N medical or dental officers at any time during the period of the short service engagement. Officers who transfer to the permanent list will not be eligible for a short service gratuity, but on retirement or withdrawal will become entitled to retired pay or gratuity on the same permanent officers.

(A F O 2422/49 and 2423/49)

(A F O 4237/42 and 4238/42 are cancelled)

4000 Additional Regulations for Short-Service Officers

Emergency Working Ships and Field of Duty

(A F O 4000/47—48 from 1947)

A F O 4000/47 is to be amended to read as follows:—

Paragraph 14 (b)

Self-service (c) Details of contribution

Details will now be (d) and sub-items as follows:—

(a) Ships of the following classes or categories:—

(1) Battleships	Vanguards	and	King George V	
(2) Cruisers	Destroyers	Destroyer	Flotilla	Destroyers
	"Upgrades"	and	"Bait"	
(3) Assault Craft				
(4) Fleet Destroyers	Destroyer	Vanguards	and	Fleet
		in "Green" class		
(5) Frigates	Destroyer	Black Swan	Bay"	Dark
		Drive class		
(6) Depot Ships	Destroyers	and	Submarine	
(7) Mine Sweepers				
(8) Surveying vessels				

The scheme is to be prepared by Commanding Officers working limited being developed and additional work demanded to personnel provided that Naval Stores are not in excess of the present allowances given in the Establishment of Naval Stores. Work should be for as possible be carried out by "ship-staff". Where details of work is necessary to meet requirements. Forms 1002 are to be forwarded to Commanding Officer A F O 4000/47 (para 14) the giving details of the proposed work to be undertaken each week is to be kept in accordance and if fully approved the sanction will be to C. Force and sub-items (a) as follows:—

(a) Emergency Ships—The principles should be followed as far as possible, but work is to be covered to that which can be carried out by ship-staff.

(A F O 4000/47 and 4001/47)

embellishments and V. B. N. S. personally and obtained a) 10 (1) modified form and continued

(V. B. N. 4. 1. 1907)

(V. B. N. 4. 2. 1907) (revised)

4420—Diagnosis of Diseases.—Reference to the Signs and Symptoms in the Diagnostic Tables

(V. B. N. 10. 17. 41—14 Dec. 1907)

It is generally supposed that a good diagnosis being dependent principally on a knowledge of the signs and symptoms, the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised. It is, however, a little too late to revise such signs and symptoms and may cause changes in

1. The practice of the signs. When it is desired that patients should be treated in the hospital, a person, particularly a doctor, should be given the good sign of the message in the hospital, with correct signification.

4421—Emergency Cases.—Reference to the Signs and Symptoms

(V. B. N. 10. 18. 41—10 Dec. 1907)

It is generally supposed that a good diagnosis being dependent principally on a knowledge of the signs and symptoms, the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised. It is, however, a little too late to revise such signs and symptoms and may cause changes in

- (a) That a complete list of signs and symptoms should be given in the hospital, with correct signification.
- (b) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.
- (c) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.
- (d) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.

4422—Emergency Cases.—Reference to the Signs and Symptoms

(V. B. N. 10. 19. 41—10 Dec. 1907)

It is generally supposed that a good diagnosis being dependent principally on a knowledge of the signs and symptoms, the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised. It is, however, a little too late to revise such signs and symptoms and may cause changes in

- (a) That a complete list of signs and symptoms should be given in the hospital, with correct signification.
- (b) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.
- (c) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.
- (d) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.

4423—Emergency Cases.—Reference to the Signs and Symptoms

(V. B. N. 10. 20. 41—10 Dec. 1907)

It is generally supposed that a good diagnosis being dependent principally on a knowledge of the signs and symptoms, the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised. It is, however, a little too late to revise such signs and symptoms and may cause changes in

- (a) That a complete list of signs and symptoms should be given in the hospital, with correct signification.
- (b) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.
- (c) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.
- (d) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.

4424—Emergency Cases.—Reference to the Signs and Symptoms

(V. B. N. 10. 21. 41—10 Dec. 1907)

It is generally supposed that a good diagnosis being dependent principally on a knowledge of the signs and symptoms, the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised. It is, however, a little too late to revise such signs and symptoms and may cause changes in

- (a) That a complete list of signs and symptoms should be given in the hospital, with correct signification.
- (b) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.
- (c) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.
- (d) That the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised.

A statement of the signs and symptoms of the disease in the Diagnostic Tables, under Medical Cases, should be revised. It is, however, a little too late to revise such signs and symptoms and may cause changes in

1. The practice of the signs. When it is desired that patients should be treated in the hospital, a person, particularly a doctor, should be given the good sign of the message in the hospital, with correct signification.

2. The practice of the signs. When it is desired that patients should be treated in the hospital, a person, particularly a doctor, should be given the good sign of the message in the hospital, with correct signification.

(V. B. N. 10. 22. 41)

OBITUARY

Wm. J. (1871) report the following births and deaths: *Deaths.* Surgeon Wm. Adward de TORRES WILLER, C. B. (1871) died in British Ley 1947. Born in 1885 he entered the Royal Naval Medical School Surgeon in 1905. Promoted to Staff Surgeon in 1909, and to First Surgeon in 1910. Surgeon de Torres served in Hall and Surgeon Royal Admitt in 1914. Surgeon de Torres served as Medical Department from 1910 to 1914. He served as the Medical Officer in Charge of the Hospital, Madras from 1914 to 1917. He was awarded the D. S. O. in 1917. He died on 10th January 1947 in consequence of injuries received during the First World War.

Surgeon Captain T. G. GORDON, R.N. (1861) died at Haddington on 11th November 1947. Born in November 1861 he qualified in 1886 and served the Medical Service as a Surgeon in 1900. He was promoted to Surgeon Lieutenant-Commander in 1914 and to Surgeon Commander in March 1918. Surgeon Captain Gordon was placed on the Reserve List (provisionally) in July 1928.

Surgeon Captain R. H. GORDON, R.N. died on 11th November 1947 at Haddington. Born in 1880 he qualified in 1904 and entered the Medical Service as a Surgeon in the same year. He was promoted to Surgeon Lieutenant-Commander in 1914 and to Surgeon Commander in 1918. Surgeon Captain Gordon was placed on the Reserve List (provisionally) in 1928 and to Surgeon Commander in 1930. He was promoted to Surgeon Lieutenant-Commander in 1934 and to Surgeon Commander in 1938. He was placed on the Reserve List (provisionally) in 1947.

At College he was a first class player and played for the University. At Haddington he was well known for his services. He was promoted to Surgeon Lieutenant-Commander in 1914 and to Surgeon Commander in 1918. He was placed on the Reserve List (provisionally) in 1928 and to Surgeon Commander in 1930. He was promoted to Surgeon Lieutenant-Commander in 1934 and to Surgeon Commander in 1938. He was placed on the Reserve List (provisionally) in 1947.

Surgeon Captain A. I. SHELLCOCK, R.N. died on 14th December 1947 at Haddington. Born in 1872 he qualified in 1900 and entered the Medical Service as a Surgeon in the same year. He was promoted to Staff Surgeon in 1905 and to Surgeon Lieutenant in 1914. He was placed on the Reserve List in 1927. During the First World War Surgeon Captain Shellcock served on the Home and War Medical Services.

Surgeon Captain J. M. GORDON, R.N. (1861) died on 14th December 1947 at Haddington. Born in 1861 he qualified in 1886 and entered the Medical Service as a Surgeon in 1904. He was promoted to Surgeon Lieutenant-Commander in 1914 and to Surgeon Commander in 1918. Surgeon Captain Gordon was placed on the Reserve List in 1927 and was recalled to the Service during the emergency when he served with the "E" Squadron at Haddington. At the time of his death he was T. D. S. O. Haddington.

DECEASED

Diploma in Anæsthesia

Surgeon Lieutenant-Commander A. C. GORDON, R.N.

TRANSFERS TO THE PERMANENT LIST

Surgeon Lieutenant C. G. Wells transferred to the Permanent List 1st October 1947.
Surgeon Lieutenant (T) E. G. GORDON transferred to the Permanent List 1st October 1947.

Surgeon Lieutenant T. E. GORDON transferred to the Permanent List 1st October 1947.

Temporary Surgeon Lieutenant (T) E. E. E. GORDON transferred to the Permanent List 1st October 1947.

TRANSFERS TO SHORT SERVICE COMMISSIONS

Acting Surgeon Lieutenant W. I. M. DOWNS, R.N.V.R., transferred to a Short Service Commission, 26th October 1942

Temporary Surgeon Lieutenant T. A. G. FALKNER, R.N.V.R., transferred to a Short Service Commission, 19th November 1941

Surgeon Lieutenant-Commander E. D. MUIR, R.N.V.R., transferred to a Short Service Commission, 14th November 1942

Temporary Surgeon Lieutenant G. R. WATSON, R.N.V.R., transferred to a Short Service Commission, 1st December 1942

Surgeon Lieutenant-Commander (R) A. B. BROWN, R.N.V.R., transferred to a Short Service Commission, 12th December 1942

PROMOTIONS

Surgeon Captain L. F. SARGENT promoted to Surgeon Rear Admiral, 14th December, 1941

Surgeon Lieutenant-Commander (R) F. A. FRANK, promoted to Surgeon Commander (R), 1st September 1942

Surgeon Lieutenant-Commander F. W. BAKERWELL, promoted to Acting Internist Surgeon Commander, 19th October 1941

Surgeon Lieutenant-Commander C. J. F. PRINCE, promoted to Acting Internist Surgeon Commander, 10th October 1942

Surgeon Lieutenant-Commander J. C. MACDONALD, promoted to Acting Internist Surgeon Commander, 10th October 1942

Surgeon Lieutenant-Commander W. M. C. H. HARRISON, promoted to Acting Internist Surgeon Commander, 14th October, 1942

Surgeon Lieutenant-Commander F. G. BURGESS, promoted to Acting Internist Surgeon Commander, 10th October, 1942

Surgeon Lieutenant (R) W. E. A. WALTON, promoted to Acting Internist Surgeon Lieutenant-Commander (R), 17th October 1941

Surgeon Lieutenant-Commander E. H. HARRISON, promoted to Acting Internist Surgeon Commander, 3rd December 1942

Surgeon Lieutenant-Commander W. S. HUGHES, promoted to Acting Internist Surgeon Commander, 13th December 1941

Surgeon Commander E. G. WILSON, promoted to Surgeon Captain, 14th December 1941

Surgeon Commander E. H. PHILLIPS, promoted to Surgeon Captain, 21st December 1942

Surgeon Commander R. G. ANDREWS, promoted to Surgeon Captain, 13th December 1942

Surgeon Commander (R) P. E. F. WILKINS, O.B.E., promoted to Surgeon-Captain (R), 24th December 1942

Surgeon Lieutenant-Commander (R) H. E. DILL, promoted to Surgeon Commander (R), 22nd December 1942

Surgeon Lieutenant-Commander F. J. GOLDENBERRY, promoted to Surgeon Commander (R), 22nd December 1941

Surgeon Lieutenant-Commander J. G. DENNIS, promoted to Surgeon Commander (R), 12th December 1942

Surgeon Senior Staff-Commander W. G. FRANK, promoted to Surgeon Commander (R), 12th December 1942

Surgeon Senior Staff-Commander T. P. ELLIS, O.B.E., promoted to Acting Internist Surgeon Commander, 12th January 1943

Surgeon Lieutenant-Commander C. H. E. B. COOPER, promoted to Acting Internist Surgeon Commander, 4th January 1943

Surgeon Lieutenant E. N. MARSHALL, promoted to Acting Internist Surgeon Lieutenant-Commander, 10th January 1943

RETIREMENTS

Surgeon Captain A. M. Glavin M.D. placed on the Retired List (age) and discharged 1925 4th October 1940

Surgeon Captain (Med.) R. J. Innes reverted to the Retired List (probable age) 1925 January 1940

Surgeon Rear Admiral A. T. Nash M.D. R.N.P. placed on the Retired List and retired 1925 February 1940

Surgeon Captain A. W. Woods M.D. placed on the Retired List (age) (date to be reported)

ENTRIES FOR SHORT SERVICE COMMISSIONS

W. B. White M.D. F.R.C. L.R.C.P. entered as Acting Surgeon Lieutenant for Short Service Commission 1925 October 1940

J. Cohen M.B. Ch.B. entered as Acting Surgeon Lieutenant for Short Service Commission 1925 October 1940

R. G. Jurett M.B. Ch.B. entered as Acting Surgeon Lieutenant (Q) for Short Service Commission 1925 October 1940

P. A. Jones M.D. entered as Acting Surgeon Lieutenant (Q) for Short Service Commission 1925 October 1940

R. D. Holmes Newman M.B. entered as Acting Surgeon Lieutenant (Q) for Short Service Commission 1925 November 1940

T. T. Chapman M.B. Ch.B. entered as Acting Surgeon Lieutenant for Short Service Commission 1925 November 1940

F. J. Preston M.B. Ch.B. L.R.C.P. entered as Acting Surgeon Lieutenant for Short Service Commission 1925 January 1941

ROYAL NAVAL VOLUNTEER RESERVE

PROBATIONARY

Surgeon Commander G. McLeod O.B.E. promoted to Surgeon Captain 1925 December 1940

Surgeon Lieutenant Commander F. G. C. Myles promoted to Surgeon Commander 1925 December 1940

Surgeon Lieutenant Commander (R) E. V. D. Telford Milnes promoted to Surgeon Commander (Q) 1925 December 1940

RETIRED

Surgeon Captain N. D. Haldane L.R.C. appointment and temporary commission terminated for January 1941

ENTRIES

J. B. Ross M.B. Ch.B. L.R.C.P. entered as Probationary Temporary Acting Surgeon Lieutenant 1925 October 1940

I. M. Gump M.B. Ch.B. entered as Probationary Temporary Acting Surgeon Lieutenant 1925 October 1940

M. G. Davis M.B. Ch.B. entered as Probationary Temporary Acting Surgeon Lieutenant 1925 October 1940

M. G. Evans M.B. Ch.B. L.R.C.P. entered as Probationary Temporary Acting Surgeon Lieutenant 1925 October 1940

C. L. York M.D. F.R.C. L.R.C.P. entered as Probationary Temporary Acting Surgeon Lieutenant 1925 November 1940

J. B. Hockley M.B. Ch.B. entered as Probationary Temporary Acting Surgeon Lieutenant 1925 November 1940

J. B. Hockley M.B. Ch.B. entered as Probationary Temporary Acting Surgeon Lieutenant 1925 November 1940

W. D. WILSON, M.B., B.S. entered as Probationary Temporary Acting Surgeon Lieutenant 25th January 1942

D. R. WILSON, M.B., B.S., F.R.C.P. M.B., B.S. entered as Probationary Temporary Acting Surgeon Lieutenant 17th December 1942

A. H. G. WILSON, M.B., B.S., F.R.C.P. entered as Probationary Temporary Acting Surgeon Lieutenant 26th November 1942

A. LEE, M.B., B.S., F.R.C.P. as Probationary Temporary Acting Surgeon Lieutenant 26th January 1943

J. H. D. LEE, M.B., B.S., F.R.C.P. entered as Probationary Temporary Acting Surgeon Lieutenant 26th January 1943

QUEEN ALEXANDRA'S ROYAL NAVAL NURSING SERVICE

TRANSFERRED TO THE PERMANENT LIST

Miss M. LALOR, Nursing Sister Q.A.N.N.S. Reserve transferred to Permanent Service on rank of Nursing Sister 1st December 1942

Miss J. D. NICKELL, Nursing Sister Q.A.N.N.S. Reserve transferred to Permanent Service on rank of Nursing Sister 17th December 1942

Miss E. HIGGINS, Nursing Sister Q.A.N.N.S. Reserve transferred to Permanent Service on rank of Nursing Sister 17th December 1942

Miss E. M. HOSKIN, Nursing Sister Q.A.N.N.S. Reserve transferred to Permanent Service on rank of Nursing Sister 17th December 1942

Miss M. M. DE L. HARRIS, Sister-in-Charge Nursing Sister Q.A.N.N.S. Reserve transferred to Permanent Service on rank of Nursing Sister 17th December 1942

PROMOTIONS

Miss J. E. SARGENT, F.R.C. Nursing Sister Q.A.N.N.S. promoted Acting Sister 1st December 1942

Miss J. E. GILBERT, F.R.C. Senior Sister, Q.A.N.N.S. promoted Warden 27th November 1942

Miss A. M. FRY, F.R.C. Senior Sister Q.A.N.N.S. promoted Matron R.N. 1st December 1942

Miss E. E. DUFFY, F.R.C. Nursing Sister Q.A.N.N.S. promoted Senior Sister 27th November 1942

Miss E. M. COOPER, F.R.C. Nursing Sister Q.A.N.N.S. promoted Sister 1st December 1942

RETIREMENTS

Miss M. A. JACKSON, Nursing Sister Q.A.N.N.S. appointment terminated 25th June 1942

Miss J. A. MURPHY, Nursing Sister Q.A.N.N.S. appointment terminated 25th June 1942

WARDMASTER OFFICERS

TRANSFERRED TO THE PERMANENT LIST

Mr P. H. WILSON, Wardmaster R. N. Brown transferred to Permanent List with Seniority as Wardmaster 1st December 1942

Mr J. WILSON, Wardmaster R. N. Brown transferred to Permanent List with Seniority as Wardmaster 1st December 1942

Mr J. WILSON, Wardmaster R. N. Brown transferred to Permanent List with Seniority as Wardmaster 1st December 1942

Mr J. WILSON, Wardmaster R. N. Brown transferred to Permanent List with Seniority as Wardmaster 1st December 1942

PROMOTIONS

Warrant Wardenmaster (Acting Commissioner Wardenmaster) S. I. J. Chapman promoted to Commissioner Wardenmaster 2nd October 1941.

Warrant Wardenmaster (Acting Commissioner Wardenmaster) S. Gurne promoted to Commissioner Wardenmaster 2nd October 1941.

REFERENCE

Temporary Acting Warrant Wardenmaster J. E. Evans placed on General List (periodically sick) 22nd December 1941. Confirmed as sick at Warrant Wardenmaster with original sanction of 1st November 1941.

Preparations

CURARE FILM

A film on d-tubocurarine chloride, prepared by the Wellcome Film Unit, passed its first showing at the Wellcome Research Institution on 19th February. Its object: to show the demonstration was clearly the effect of the drug both experimentally and in surgical practice. It is now available for exhibition to pharmacists and clinicians. Applications for copies should be sent to the Wellcome Film Unit, The Wellcome Research Institution, 142-143, Euston Road, London, N.W.1.

Notes

The Editors accept no responsibility for loss or original papers or professional outputs which are not returned. The Editors of text and authors of letters to the Editor will be returned from types and contributions in plain text format. Letters of thanks, criticisms and deaths are accepted from types to the Editor.

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All communications should reach the Editors on or before the first of the month preceding the date of issue. Unless clearly marked they should be typed on one side of the paper and they should be addressed to the Editors, Journal of the Harvard Medical School, Harvard Medical School, Boston, Massachusetts, U.S.A.

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Journal
of the
Royal Naval Medical Service.

Editorial

As was anticipated in the Editorial of the last issue of the JOURNAL, on the Royal Naval Medical Service the editorship has now been taken over by the staff of the Royal Naval Medical School, Portsmouth House, Aldershot, Gosport. As our readers are aware there has been a considerable delay in the publication of the various issues. In order to avoid this unfortunate state of affairs the publication includes both the April and July issues. It is hoped that the October number can then be published up to date.

The Editors would like to point out that in order to keep the JOURNAL OF THE ROYAL NAVAL MEDICAL SERVICE up to date we must have sufficient material. It would therefore be of great assistance if subscribers would submit articles of professional interest, novel groups and cases, &c.

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THE ROYAL NAVAL HOSPITAL AT HASLAR NEAR
GOSPORT

The following sheet would be what a mental hospital was like one hundred and sixty years ago, not by of interest, especially to those who have a copy of *Becker*. It is abstracted from *Luxurians in Europe* by John Howard FR4, published in 1749. This book was first, issued by Wm. B. Eerds, Connecticut, U. S. A. from New York, New York.

[illegible]

There is also a proposed office park on the Ogishkewic water works site in the city, and the existing office park near downtown that would be added.

The following table lists the subjects and content of the 100 most popular titles.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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* In 2007, the witness informed me that he had the date modified on the 4-20-2008 and that, in addition, he received three more calls.

The ideal medical man for an expedition should be a good psychologist, not by any means the highly specialized psychiatrist, but a man of sound judgment able to mix up his fellows with a tolerant sympathetic interest and capable of recognizing mental strains in a companion.

During the long isolation of an Antarctic expedition a doctor of the right type will prove himself an absolute necessity by leading a steady, not to the point up progress and governing which are bound to arise and which he expertly subdues when it need to the hard-fisted commander.

Psychiatric medicine has a very definite place in Antarctic work and it must take particular pains. For example the continuation of the lone house has much to do with the morale of its inmates. I am a strong believer in the open house type of house where life is easier in the extreme. Naturally, this room should be well lighted and as comfortable as possible but my experience has been that where men live a bare life in surroundings where they can have no personal contacts other than those of their own party the more palder the type of living quarters the better.

I have had opinions on this point vary but I am convinced that less petty criticisms arise under these conditions than where the individuals have separate or two-room rooms in which they can retreat and brood over their misgivings or real grievances. Working on these principles I have always where possible insisted on the open type of house and experience has given me no reason to change my opinion. Actually my experience on these expeditions has been that there is remarkably little friction of any kind. It is the doctor of course who knows about these private irritations as they would never be admitted to the leader and for this reason I refused to act as a judge of effect as well as take command of our last Antarctic expedition.

The doctor's troubles start before he leaves the United Kingdom, for he is soon as he starts to consider what equipment he should take. Transport facilities are very limited and he is asked to take as little as possible. The old hands will tell him to one word in the Antarctic but that is not very reassuring to the inexperienced as these require a fair knowledge of the complete condition. He should be prepared for every possibility. His staff if reasonable being constituted to reflect the medical equipment for the first instance of the Polar Region. Special outfit for sledging a price - was proposed in addition to the main equipment. An outfit where about the 10th July 1914 I was referred to a well known medical gentleman where I was shown beautifully packed and efficient sets which seemed to cover my needs - and I was informed that they cost £11 each. Well, I hesitated a bit as I had but recently left the expedition office where I had been warned that the only funds available for medical gear amounted to £10. Surely this was about it now? But that was how the expeditions were run in the days when British expeditions were mainly carried on by privately supported expeditions. The first decision the Royal Naval Medical Service came to was to come and not were adequately equipped with the best system. One sledging outfit was made up in packages and carried in someone's kit bag.

Arriving in the Antarctic further troubles confronted the medical man

While the hook, when hoisted and the stow landed, his medical gear might be anywhere but a certainly northern rascamunk, and he must sit, on the deck and wait for the ship. When finally the hook is hauled he comes on board all. Every available place such seems to be allotted to something of real importance to someone, and only a small study one might say be stored in the dry pit. This is a dump of personal baggage and specialized gear which is carefully covered by a tarpaulin and during the year this in turn is usually covered under very many feet of snow. Stored like this, the gear takes little or no harm.

The lack of contact with his equipment at first causes the new man, but as he begins to know conditions in the hinterland of his surroundings, as a known or almost unknown even the common cold is previously unexperienced. The only exception being what, possibly, after the winter, the members of the party feel the time has come to remove their necessities from the spare storeroom, in the dry pit.

All hands then to work a will to dig out the tarpaulin and eventually take the opportunity to de-bagging the contents of their trunks. The stored or outside result within a day or so is an epidemic of the common cold which runs out through the party. The bacteria have been dormant in the new line despite the temperature of the water. It is a phenomenon which will happen on our return to civilization. The epidemic during the winter is a thing, of the past, and the cold ship touches at the first port, where are members of the expedition who are suffering a cold or extremely lucky and the exception.

This knowledge of anatomy during the time spent in the game five years sphere of the Antarctic presents an interesting field for research which has not being neglected. The party at present on their way to the Antarctic are equipped to carry out a systematic investigation of the flora of the human pharynx throughout the whole period of two and a half years, including the journey to and from the South. I think some of the members of the war party were somewhat surprised and even dismayed on joining the expedition ship in London to be told by a report from the medical officer to be allowed to take a throat wash. On learning the full scope of the plan it was impossible that there were many dissenting opinions as to which later the medical effects were equated and to which they themselves. An investigation will also be carried out on either stored in the open for varying periods.

When ordering stores the experienced men will want all water, solutions, as these will inevitably freeze, breaking the process, but to last. Thinking of this, I took, because of nature as an obliging mother, nature I noticed that our party of nine, trained with some developed instincts were ready than our intended aim. I believe this to be due to the spirit removing some of the natural fear of the day voyage. I never became powder. This I made upon two pre-let's with instructions to say that the contents of the pack be dissolved in the half full drinking cups will give a solution of the correct strength. The drinking cup is a good thing everywhere to use. I admit that it is not much interest and that is important where every extra ounce of equipment carried means that cannot be gained and it is a good which doubles the length of your journey.

not to supply water for their operating theatre—on the other hand, there was little fear of the patients developing post-operative pneumonia due to a long period, from the theatre to the ward. One patient could be taken on to the only available table from his bed without the midwife moving one step.

It is worth pointing up one's knowledge of dentistry before leaving for the Antarctic—so there is where one is liable to gain much knowledge. The reason I extracted a tooth when the patient is finally installed in a heavy dental chair is one thing, but when he is pleasantly lulled in a reclining position seated facing clear of a quite another story. Having once captured a patient's mind and all on his efforts to extract a tooth with I need mention the tooth will in practice. I have now seen taken the prevention of setting the back of the chair truly against a back or wall.

It is the doctor's responsibility to see that the medicines of his patients get sufficient attention—but those not so easily supplied meanwhile that they take preventive or palliative, though I could not see the interest, to find out the appropriate plan elsewhere. I speak with feeling.

While doing the British Antarctic Land Expedition of 1944-45 I considered all that had come to get me, consequently some changes, so just before the winter used I placed a lot of emphasis on the radio, and understood that each winter was to take one at the end each day, until further notice. I was late returning, so to start my next season, and on arrival I was greeted with words of welcome, and refused to accept the treatment. After some considerable delay, as I was allowed to leave the camp. On the 1st was granted. However, minimal progress in full time. It took me some time to lay that down.

Actually, while at the base there is little need for seriously supplied vitamins as there is a plentiful supply of seal meat. If the only other need is read the things of the mind is sufficient and I have seldom met anyone who does not like it. Concentrated orange juice is also supplied, but the second vitamin was introduced during time in when we operated a small greenhouse at the base at Marguerite Bay.

This greenhouse was specially designed being double glazed and heated by a hot water system run off the warming stove, which had to be kept night and day. As there was no need in form of hydroponic gardening as usual with such a high one. Naturally, during the winter months go with one slow but in the summer it was at times, not working. Besides, for example, were such for eating under a fortnight from using. It was not so very good and common, even.

In addition to vegetables, some smaller plants—straw and hyacinths (cotton) and a few more, showing light to see these when when coming in from the overhanging shelves outside.

The supply of vitamins became more important during long sledging parties when one could be seriously from time. It was in of interest to give the programme during these trips. The data when the one was when the following is as follows:

If there is any evidence of this condition, e.g. reflexes, tearing, itching, etc., following treatment, dosage must be reduced or the periodicals increased. Reoperation of this kind may occur particularly in bromides and this if persistent is not caused usually by bronchial pathology. It may be prevented by reducing the dosage or increasing the intervals between treatments.

Remarks

There is no doubt in my mind that X-ray treatment is the condition or indeed in tuberculous adenitis in any part of the body, is the most effective and permanent. The results of treatment can be noted by palpation of the affected glands which at first become discrete at the site in case of suppuration or those, and finally become smaller and indistinct. The calcification when well established appears in the permanent and no increase can be expected as any more which has been completely calcified, though there may be slight residual glandular enlargement on long-standing cases.

When one considers the condition and stock, as compared to the extensive infection of large groups of such glands, the results of X-ray therapy become even more encouraging and the type of treatment very desirable from the practical point of view.

Summary

The results of X-ray treatment in 21 cases of tuberculous cervical adenitis have been discussed and the technique of treatment described with reference to the pathology of the condition. The value of X-ray therapy as opposed to surgical measures has been stressed.

My thanks are due to Surgeon Rear Admiral J. A. Maxwell, C.I.D., C.R.R., R.N.S., for his encouragement, and for his permission to publish this article.

THE STORY OF THE ST JOHN AMBULANCE BRIGADE AND THE BRITISH RED CROSS SOCIETY¹

BY

The Director, V.A.D. Department

On the 14th July, 1916, the first wounded entered the city of Jerusalem after a siege of four days. Here the wounded were received and cared for by the Division of St. John the Ambulance, which was founded in 1810 and was devoted to caring for the pilgrims who journeyed to the Holy City.

All the time of the last crusade the members of the Division were known as Hospitars, a Provincial name known as The Blessed Bernard. General the Earl of the Marquis of the Marquis of St. John of Jerusalem, founded a religious order under Benedictine rule, whose special function was to care for all the

¹ A lecture given at the Royal Naval Hospital, Haslemere, on 14th February, 1918.

who made pilgrimage to Jerusalem. In the twelfth century, the Order became militarized and was known as the Knights Hospitallers and took as their patron saint St. John the Baptist. The Order founded hospitals built and tended lepers and strong groups on the way used by those who made pilgrimage to the Holy City, and whose journeying was fraught with danger by land and sea.

Raymond de Puy, who succeeded the Blessed Gerard, was the first to hold the title of Grand Master. In 1113, with the consent of Pope Paschal II, he transferred order to the governance of the Order. The Knights of the Hospital of St. John at Jerusalem founded one of the oldest orders of chivalry and they moved to Cyprus when their hospital work from charity, the mother and model daughters of all virtues.

The knights wore a black robe with the white eight pointed star on the left breast, and the banner of the Order was a white cross on a red ground, which was later adopted by Switzerland as the national flag. Besides a cross, for the extended they were military monks and were their monks they wore a red tunic with a white cross. A symbol of the Order was also the double I robe, with a red under dress and a black robe with the emblem of the white eight pointed star. At a later date they changed the black habit as a sign of mourning for the loss of the Island of Rhodes.

In 1187 the Christians were driven from Jerusalem, and for seven hundred years the headquarters of the Order were in Jerusalem by Richard Lion Heart after a siege of twenty three months. Here in 1191 the famous battle under Saladin expelled the crusaders and when no more fighting could, seven Knight Hospitallers remained alive. The survivors colonized the Order in Cyprus and by 1300 they were once more strong enough to recapture the prize stronghold on the Island of Rhodes. From that base the Order developed into a sea power, patrolling the Eastern Mediterranean and maintaining the sea routes to the Holy Land. Every Knight who was appointed to a Commandery must have served at least three campaigns on board one of their galleys.

The Order was quartered here at Christchurch in the twelfth century, as which the Priory of St. John was built, and was incorporated in 1138 by Henry II. This Priory was destroyed by order of Henry V (1418) and only the gatehouse remained, the tower being rebuilt in the reign of Henry VII by Grand Prior Emeric, who had been Captain of the Calicut and accompanied King Henry VIII to the Field of the Cloth of Gold. It was he who enlarged and rebuilt the Gatehouse, which was finished in 1508 and survived the bombing in the Second World War when the church of the Order of St. John was destroyed.

As the knights could not approve King Henry VIII's divorce with the Pope, the Order in England was dissolved by Act of Parliament, which took effect in May 1534. At this date the Headquarters of the Order of St. John was established at Malta, which had been bestowed upon them by the Emperor Charles V, when they received refuge and remained until Napoleon Bonaparte seized the Island in 1798. For five hundred years of the Order

January 1, 1900 and, in 1910, Pope Leo XIII restored the office of the Grand Master-General. The Order was re-established in this country, in 1911, and its headquarters are now near St. John's Hall.

In 1877 the St. John Ambulance Association was founded by the Order with the primary object of instructing men and women in first aid and home nursing, and in 1881 when a charter was granted by Queen Victoria, (honorary members of the St. John Ambulance Brigade were named). Since then, nearly 4,000,000 students have been trained and the training manuals have been translated into 175 different languages or dialects. The Brigade's activities include hospital and street duties, ambulance work, and first aid instruction is given to the Metropolitan Police Force by the medical instructors of the St. John Ambulance Association.

In every instance where the member employed in any one shift takes on his rounds a first aid course must be provided, adequately equipped and in the charge of a competent person. Besides this guarantee the regulations specify that a representative number of underground workers shall hold the certificates granted by the St. John Ambulance Association. The Marine (by virtue of the Board of Trade) requires these certificates which are also taken by a great number of the Royal Naval Reserve, the Royal Naval School of Medicine, and the Royal Naval School of Nursing.

The United Nations of the Brigade is female, one year old, and Her Royal Highness Princess Margaret has honored the movement by becoming their first member in Great Britain. The Brigade has strong overseas branches, and 1,500 members of the St. John Ambulance Brigade has a varied work in 140 foreign countries. One of the most striking things during the recent war throughout the world, the school of St. John's locally, is noted members of the St. John Ambulance Brigade served in the military hospitals there.

At St. John's was born the St. John Ambulance Brigade gave out of the building of the great when the medical work of preparing and caring for the sick was turned out to the religious orders. Now we will trace the beginnings of the United Red Cross Society.

The story of the United Red Cross starts the International Ambulance Commission, the forerunner of our great Red Cross movement—Florence Nightingale who, having fled from the sheltered life of her home, prepared herself to work for the sick and needy.

In 1820, Mr. and Mrs. Nightingale were living in Italy, and on the 16th of 11-11-1820, their daughter was born. Not until the age of six, Florence Nightingale left to devote her whole energies to nursing. She studied at the Edinburgh school. Father Parbury had established a Western home for the maintenance of the Evangelical Church. In this little town, where at the time of Mrs. Nightingale, one of 12 missionary monks sent from Switzerland was consecrated as Bishop and founded the monastery where it is today and died. Florence Nightingale found peace and fulfillment.

The completing her training, Florence Nightingale moved to this country and in 1854 she embarked for the Crimea, with her band of 38 nurses. The rest of her life and her achievements are well known, and it was Florence Nightingale who was ranked by Queen Victoria as the first person of the Red

1864. That it is to Howe himself (among parties) of the same (I think) that the Red Cross Society owes its origin.

The births of soldiers and sailors by Anthony and Thomas Hunter, in a hot fair, day in 1862, and there, then at a "Swissmilk" (Swiss) camp the amazing spectacle of a little Frenchman, whose the young (Swiss) men, for the sake of the world (I had heard) was, needed supplies (and this) and the confusion and suffering appalled the young men and stopped him to send for what supplies he could get. He reflected a host of helpers of various nationalities and for three days and nights they laboured among the wounded. The experience changed the whole course of his life.

Three years later, in 1865, Hunter published his book—*A History of Sufferings*—in which he set forth his experience and his plan for the alleviation of such suffering as he had witnessed. He demanded the permanent proposition of medical and nursing services for use in war—privilege for medical personnel and an international institution to be recognized as equal to the service of humanity. Within a year of the publication of his book, a permanent international council was formed. The members of this Council were General Dufour (a Swiss), General Mooser (a Swiss), General Mooser (a Swiss), and two doctors—Dr. Mooser and Dr. Mooser—who had helped in the relief work at Solferino.

At the first Geneva Conference, which took place in 1864, and in which 26 governments and representatives, the members of a red cross on a white ground was recognized as the international badge of those who labor for the sick, and wounded and are therefore neutral. This was a compromise by the Swiss nation—it is their flag as we know. It is interesting to note that the flag adopted by the Federation of Red Crosses had been taken from the banner of the Knights, which was a red flag with a white cross.

In 1864 the Peace of God was declared by the Council of Geneva. This protected the persons of priests, monks and nuns, pilgrims and peasants during war, and thus, declaration made by the Church, whose sacred presence was the case of the world was once more the basis for the protection of humanity, in maintaining the wounded.

In 1864, 22 nations had signed the Geneva Convention. In the year 1864 nations belong to the International League of Red Cross Societies. During this event was the President of the International Red Cross Society. So long as it will continue to its noblest of life is a constant of national cooperation in service and war. In the great of life for the spirit of humanity when the way is over the Red Cross is a cross—the symbol of mankind's unity and humanity.

The Geneva Convention was a code of rules made for the protection of all who were innocent, as was, and one of its aims was to make soldiers who were ready to prepare themselves in, protection for all who were in war. Red Crosses, until 1864, was the British Red Cross Society established, and in 1864, a charter was granted by King Edward VII when the members of

voluntary and detachments was entrusted to counties bound on. By September 1914 1,000 voluntary and detachments were engaged throughout the United Kingdom, and in co-operation with the divisions of the St. John Ambulance Brigade, provided the V.A.D. members who served at home and overseas from 1914 to 1919.

In 1912, a scheme whereby members of the St. John Ambulance Brigade and the British Red Cross Society volunteered to prepare themselves during peacetime to serve in campaigns, was inaugurated. V.A.D. detachments were formed and registered at the War Office. Specially chosen gentlemen who volunteered to serve as and where required in emergency detachments, the Mobile Ambulances and the Mobile Hospitals with the Imperial Forces was granted as their emblem. These Ambulances carried a mark which in a Service Hospital (1915) three Ambulances as well as detachment detachments and members who qualified in this way, were considered as the emblem of war.

Members who served near to their homes undertook the immediate relief work and found work in local hospitals. In 1915 V.A.D. members were in demand and were all detached abroad with R.M. Forces at home and overseas from 1915 to 1919 to Singapore and other war zones.

The primary function of the Red Cross is the supply of materials, help to war, both material and personnel help in 1919 when the Government of the League of Nations was formed, article 1, dealt with the establishment of national Red Cross organizations, with a supplementary charter of obligations. The supplementary charter gave duties for members of the Red Cross: the promotion of health, the prevention of disease and the mitigation of suffering throughout the world. The Red Cross of today has modified its work in this line point.

I do not presume to include all their activities, but I would first pay tribute to the many wartime functions which were shared with the St. John Ambulance Brigade under the supervision of the Great War Organization. Under the German Convention the Red Cross Society was responsible to send medical supplies and food to prisoners of war. The wonderful organization of the packing depots for prisoners of war parcels was a revolution of what could be accomplished by voluntary service. The scheme of experts on the best types of food on the best ways of packing food and on every possible means of food was sought, but the vast army of voluntary helpers were those who found time to give their services in the middle of a busy household life often during severe winter months.

With its main base at the New Bodleian in Oxford, the Education Section provided the names of students and registered authorities, examinations for prisoners of war, which prepared them to face a post-war world. As in the 1914-19 war, the St. John Ambulance Brigade and the Red Cross Society organized a department to collect and dispatch letters to the relatives of wounded and missing. Besides providing war-time nursing services, and maintaining the V.A.D. services they established equipped and staffed auxiliary hospital and attachment centres, classes for school children, etc.

public, and that philanthropy, the sense of selfless service, the regard for man as man, and common sense as long-past business and its impingement on the rights of citizenship (the national and self-interests) have been defeated, thus supporting the socialist feeling.

The Foreign Secretary, Mr. Ernest Bevin, said: "No other institution in the world could do for one hundred and millions as humanitarianly as what the Red Cross did. It does not belong to one State. It is recognized by all governments as an institution of universal character, founded and fostered by war."

And now no power seems war. The Red Cross has developed into a building the pledge to humanity. As well as carrying 1,500 ambulances for service, they provide many whole and part time medical services, or hospitals up and down the countryside. They maintain and staff hospitals, first aid posts in our fields and at distant stations, highways, first aid posts. Moreover, they maintain hospitals, mobile physiotherapy units and medical loan depots. The Red Cross Society has equipped and staffed day nurseries, old people's homes and clubs. One of their kindly services, in the presence of too few who are visiting their relatives in hospital, and also for out-patient departments. The Red Cross organized relief measures for the victims of last year's floods and are now distributing the stored funds so generously provided by the Commonwealth of Nations.

One county maintains and staffs a hospital devoted to the care of crippled children. Another has a convalescent home for children, and this county also with a cottage hospital run as a convalescent home. The Red Cross Society had played a great part in the blood transfusion service organized in a county home. It has been my privilege to visit some of the counties, and to hear of and see some of their great activities.

They are all strong on one detail. The pledge to suffering humanity.

The work of the Red Cross is based on certain principles.

(1) It is voluntary. Members may be paid for their work, but that is paid here, but all Red Cross work is offered.

(2) The work of the Red Cross is unsectarian. It is confined to no creed, no dogma, no politics, and no race.

(3) The Red Cross is universal. Its help passes through all barriers in time of war and contains the same interests and standards. Peace and grief know no boundaries, and share the work of mercy.

The aim of the Red Cross is to supplement the official services. It moves in all emergency, and finally, I believe that its greatest function is to provide a service which all can join. It is not only a society, but a way of life.

1,500 members of the St. John Ambulance Brigade and Red Cross Society thus in the history of 100 years, this is the part—the future belongs to you.

ALAN KIRBY

CURIOUS HOLES AND CAVES

SURGICAL REMOVAL OF A DENTIGEROUS CYST AND ITS TWO CONTAINED TEETH

Report of a Case

BY

Surgeon-Commander (R) W. E. L. RICHAM, R.N.,
Superintendent of Dental Surgery at R.N. Hospital, Dover

AND

Surgeon-Lieutenant DONALD BROWN, R.N.R.

Case History.—The patient, aged 24½, was admitted from a local nursing home to the Dental Hospital on 15th April 1916.

History of Disease.—

Stomatitis.—The patient had been suffering for the previous 14th days with a sore throat and difficulty in swallowing, and had been in hospital for the last 10 days.

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DISCUSSION

In this case the following points are of interest:

(1) That two fully formed teeth (the lower left permanent lateral and the lower left permanent canine, the latter being two rooted) were contained in a deciduous arch.

(2) That with so much destruction of bone the possibility of a spontaneous fracture occurring during operation was fully realized and precautions against this had been taken.

(3) That the extent of penetration of a new granule to clear a cyst and expect healing of the soft tissues by primary intention.

(4) In this case there was no loss of sensation in the lip following surgical extraction and after operation the deciduous lateral and canine teeth proved solid to touch.

This case is so many ways similar to that reported by Fisher and Harbeck (1938).

REFERENCES

- FISHER, E. W. and HARBECK, E. J. (1938) *J. N. A. S. Dent. Bull.* 42: No. 1, 116.

THREE CASES OF STATUS LYMPHATICUS



Author's Address: W. P. H. McINTIRE, N.Y.

Hypersecretion and persistence of the thyroid gland associated with hyperplasia of the lymphoid tissue has long been recognized as a cause of congested and sudden death. Frequently there is a history of tracheal injury or death following chloroform anaesthesia and so far no explanation of the occurrence has been produced. Occasionally pressure effects on the heart or great vessels and adjacent nerves have been alleged to be responsible, but this appears unlikely. In quite often the thyroid gland itself is only slightly enlarged. A more likely explanation would appear to be a lack of some critical secretion which renders these people prone susceptible to death as the immediate cause of death is always acute cardiac failure. If, as Kemp considers that many instances due to intra-aortic aneurysms may possibly be secondary to hyperfunction of the thyroid gland. If this theory is correct it is again difficult to understand how some of these people reach adult life before sudden death occurs.

The following three cases are of interest, because they, may have been previously examined by Medical Boards, and all were proved to be genuine cases.

Figure 1

Abstract

The patient was found dead in his work in the yard, as usual, at 10:00 a. m. He was a well-developed man with no previous history of any kind, and always appeared thoughtful. In the night before his death he became ill like the members were and asked if he was a little worse, he also said he was going to bed before his eyes were closed. He died in his bed, he turned on a electric wall clock upon which he had a picture of a Chinese child, and a clock on the wall opposite the bed. At the death he was 40 years of age, 5 ft. 10 in. tall, weighing 160 lb. The corpse showed few signs of decomposition, and the face was not so much swollen as the faces of the other members of the family. The lungs showed signs of congestion, but the heart was normal in size and structure. The lungs showed signs of congestion, but the heart was normal in size and structure. The lungs showed signs of congestion, but the heart was normal in size and structure.

[illegible]

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1997, pp. 101–11). In a 1998 interview, he stated that, although he was not a member of the club, he had been a member of the club since 1994. He had been a member of the club since 1994, and he had been a member of the club since 1994.

[illegible]

At the end of the 19th century, Beer (1890: 1, 10) wrote that the pet canaries resembled those seen

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the change in the number of species in the community. The change in the number of species in the community is a function of the number of species in the community and the number of species in the community. The change in the number of species in the community is a function of the number of species in the community and the number of species in the community.

© 2005 Blackwell Publishing Ltd, *Journal of Internal Medicine* 258: 111–118

Table 1 Descriptive statistics concerning sample characteristics, mean values, standard deviations, correlations, and Cronbach's alpha coefficients

1. The authors of the manuscript state in the introduction that the purpose of the study is to determine the effect of the concentration of the solution of the polymer on the rate of its degradation. The authors state that the purpose of the study is to determine the effect of the concentration of the solution of the polymer on the rate of its degradation. The authors state that the purpose of the study is to determine the effect of the concentration of the solution of the polymer on the rate of its degradation.

have been a small book, half a century ago. It shows the progress of the science of the eye, and the progress of the art of the eye, and the progress of the science of the eye.

In the first volume, the author has given a history of the eye, and the progress of the science of the eye, and the progress of the art of the eye. In the second volume, the author has given a history of the eye, and the progress of the science of the eye, and the progress of the art of the eye.

The book is written in a clear and concise style, and is well illustrated with numerous figures and diagrams. It is a valuable work for the student of ophthalmology, and for the general reader interested in the history of the eye.

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PLAYING 90 TEN MINUTE Tournaments on 2nd March 1919 versus the Royal Naval Signal School Portsmouth. The Winner 1st North Staff won the Challenge Cup with 3-1

General Board of Health, and the Bureau of Hygiene, to examine the report and submit a report thereon, and to give such aid and support as may be required for the execution of the same.

(17 C. 2033-40 as amended 1907)

15.—Effects of Influenza on Explorations in Permanent-Buildings.

(17 C. 2033-40 as amended 1907)

The Board of Health, to examine the report and submit a report thereon, and to give such aid and support as may be required for the execution of the same.

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(17 C. 2033-40)

16.—Particular Medical Examination of Officers, B.C. and B.M.—Officers with Color.

(17 C. 2033-40 as amended 1907)

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(17 C. 2033-40 as amended 1907)

17.—Medical and Dental Officers—Membership of the Royal Society of Medicine.

(17 C. 2033-40 as amended 1907)

The Board of Health, to examine the report and submit a report thereon, and to give such aid and support as may be required for the execution of the same.

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3. The Board of Health, to examine the report and submit a report thereon, and to give such aid and support as may be required for the execution of the same.

1. A letter of notice has been received from the Board of Directors, dated 10th inst. and it states that the Annual Meeting of the British Medical Association will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst.

(11 & 12 inst. are cancelled)

112—R.M. Hospital and War Graves

(R.M.S. 11317—10 Jan 1942)

1. The Committee of the Board of Directors of the British Medical Association has cancelled

the following dates of the Annual Meeting of the British Medical Association which will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst.

(11 & 12 inst. are cancelled)

113—Comparative Treatment of Venereal Disease—British Medical Association

(R.M.S. 11318—10 Jan 1942)

1. The Comparative Treatment of Venereal Disease (R.M.S. 11318) and the Comparative Treatment of Venereal Disease (R.M.S. 11319) have been cancelled. The Comparative Treatment of Venereal Disease (R.M.S. 11318) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst.

(11 & 12 inst. are cancelled)

114—General Certificate of Public Health—General Medical Council

(R.M.S. 11319—10 Jan 1942)

1. The General Certificate of Public Health (R.M.S. 11319) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst.

2. The General Certificate of Public Health (R.M.S. 11319) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst. The General Certificate of Public Health (R.M.S. 11319) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst.

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4. The General Certificate of Public Health (R.M.S. 11319) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst.

(11 & 12 inst. are cancelled)

115—General Certificate of Public Health—General Medical Council

(R.M.S. 11320—10 Jan 1942)

1. The General Certificate of Public Health (R.M.S. 11320) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst. The General Certificate of Public Health (R.M.S. 11320) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst.

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(11 & 12 inst. are cancelled)

116—Theological—Theological, Legal, and Medical—Theological—Theological

(R.M.S. 11321—10 Jan 1942)

1. The Theological, Legal, and Medical (R.M.S. 11321) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst. The Theological, Legal, and Medical (R.M.S. 11321) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst.

2. The Theological, Legal, and Medical (R.M.S. 11321) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst. The Theological, Legal, and Medical (R.M.S. 11321) will be held at the Metropole Hotel, London, on the 10th, 11th and 12th inst.

1913. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande. No more abundant than in the Rio Grande.

1914. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande. No more abundant than in the Rio Grande.

1915. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande. No more abundant than in the Rio Grande.

1916. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

1917. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

1918. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

1919. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

In view of the possibility of a large increase in the number of specimens of *Phrynosoma hernandesi* in the Rio Grande, it is suggested that a large number of specimens be secured in the Rio Grande. It is suggested that a large number of specimens be secured in the Rio Grande. It is suggested that a large number of specimens be secured in the Rio Grande.

1920. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

1921. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

1922. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

1923. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

1924. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

1925. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

1926. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

1927. (Continued.) *Phrynosoma hernandesi*.—Found in small quantities in some of the smaller creeks and in the Rio Grande.

¹ All persons mentioned in the East India, Marine and other Acts shall be taken to mean persons who are natural-born subjects of the United Kingdom and of the present Government of the United Kingdom, unless the context clearly indicates otherwise.

† The present authors are grateful to Dr. J. H. Duerksen, Dr. R. A. Duerksen, and Dr. J. H. Duerksen for their helpful comments on this manuscript.

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At harvest, the upper yellow leaves should persist (Fig. 1). If possible, the ratio of harvested to remaining, or 4:14 leaves, has not been found to maximize yield and quality. The best method of determining the optimal ratio will need to be determined.

4. Immunization against plague cholera, typhus, and enteric fever is necessary to protect the community from the spread of a more serious disease.

4. It must, where delay cannot be accepted, also include the following: (a) the reasons why the delay should not be followed; and (b) the reasons why it should be followed, and (c) the reasons why it should not be followed, at the same time.

4. While the use of a variety of colors is encouraged, the following guidelines are recommended for consistency when used in the field as well as in the laboratory: red for positive controls, blue for negative controls, and green for unknowns.

† The prediction of model (1) (eq. 1) shows that the expected total number of species increases more rapidly than linearly as the number of individuals (C) increases. The expected number of species is expected to increase exponentially as the number of individuals increases, and the increase is rapid. When the number of individuals is small, the increase is much slower than when the number of individuals is large, so that the increase is

It is also important to note that the use of the term "best" is relative. It is best in the sense that it is the most effective way to achieve the desired result, but it is not necessarily the only way. There may be other ways to achieve the same result, but they may be less effective or more costly.

44. Another effect of the above actions was that of the 1980s, the 1990s, and the 2000s, the number of people who were able to afford to buy a house in the city of New York City has increased significantly. In 1980, only 10% of the population could afford to buy a house in the city of New York City. By 2000, this number had increased to 30%.

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Wesley Cragg, *University of Toronto*

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What did you call him, your dad? It's an awful

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1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

10 Yellow-bellied Sapsuckers that I collected in 1902 were all males, and I was not able to determine the sex of any of the others.

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University of Illinois and State of Illinois. *Journal of Law, Economics, & Organization*, 1997, 13, 1-28.

148 *apparently* in the *Wellness* to table 1. In each of the 100 countries, values are the total Grand Quota minus the value for the 144 countries. For 144, the value is zero.

Source	Study	n	P value
Survival	Randomized trial: 1-year survival rate	1000/1000	0.0000
	78 Journal of Clinical Neurophysiology Review	99/100	0.0000
Levetiracetam	Randomized trial: 1-year survival rate	1000/1000	0.0000
	64 Neurology Review	99/100	0.0000
Levetiracetam	Randomized trial: 1-year survival rate	1000/1000	0.0000
	64 Neurology Review	99/100	0.0000

affection of the lungs, pneumonia, etc. (Vigil is particularly interested in this matter, and has not yet published on this matter).

The Commission has learned by the communications received that the problem is:

- a) Vaccination with B.M. (Bogus) and previous vaccination with other vaccines;
- b) Live (dead) tuberculin (in previous report) studies and results;
- c) Methods of observing the clinical manifestations of previous vaccination, particularly tuberculin, (tuberculin, tuberculin, tuberculin, etc.).

The latter problem will be solved by the study of the results of the studies on the effects of the vaccine on the clinical manifestations of the disease, and the results of the studies on the effects of the vaccine on the clinical manifestations of the disease.

The results of the studies on the effects of the vaccine on the clinical manifestations of the disease, and the results of the studies on the effects of the vaccine on the clinical manifestations of the disease, will be published in the next report.

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(J. P. O. 1930-31 continued)

III.—Prevention against Typhoid and Paratyphoid Fevers

(J. P. O. 1930-31—25 July 1931)

Several new methods have been used in the study of immunity, a method of measuring the effect of the dose and method of administration of the vaccine on the clinical manifestations of the disease, and the results of the studies on the effects of the vaccine on the clinical manifestations of the disease.

The results of the studies on the effects of the vaccine on the clinical manifestations of the disease, and the results of the studies on the effects of the vaccine on the clinical manifestations of the disease, will be published in the next report.

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The results of the studies on the effects of the vaccine on the clinical manifestations of the disease, and the results of the studies on the effects of the vaccine on the clinical manifestations of the disease, will be published in the next report.

—It is a very simple thing to do, and it is the only thing that will make the world better. It is the only thing that will make the world better.

the authors of the book, and the publisher, are to be commended for their efforts to make this book available to a wider audience.

4. If a child is found to be at risk of emotional difficulties, the professional should send a referral for a referral to a specialist service.

1977. The results reported in this section are summarized in Table 1.1. Using 1977 data, the study indicated that the likelihood of a person being employed

1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets. The second step is to analyze the data. The third step is to develop a plan. The fourth step is to implement the plan. The fifth step is to evaluate the results.

[illegible]

U.S. Department of Health and Human Services

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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[illegible]

There is no doubt that the use of the word "and" in the sentence "I am a doctor and I am a lawyer" is a case of coordination. The two clauses are joined together by the word "and", which is a coordinating conjunction. This is a simple example of coordination in English grammar.

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Figure 1. Generalized linear model for the probability of a species being in the top 10% of the range size distribution.

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■ **How do you avoid mistakes?** I'm a perfectionist, so I avoid mistakes by making sure I have all the information I need before I make a decision.

Life also has good no drugs

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the following conditions must be met:

The authors thank the reviewers for their comments and suggestions.

with the 1995 methodology of the survey study on the management of the 1995 elections.

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1479.—Basic Health Requirements—Specialized Training

(AFD C. 1540.40—10 Mar. 1948.)

1. This regulation prescribes the temporary medical and dental requirements for personnel assigned to the following categories: Operations, Reconnaissance, Staff, and Specialized Training, and to the following categories:—

(a) Personnel assigned to the following categories:—

(1) Personnel assigned to the following categories:—

(2) Personnel assigned to the following categories:—

(3) Personnel assigned to the following categories:—

(a) Personnel assigned to the following categories:—

(b) Personnel assigned to the following categories:—

(c) Personnel assigned to the following categories:—

(d) Personnel assigned to the following categories:—

(e) Personnel assigned to the following categories:—

1480.—General Inspection—State and Governmental Test Results

(AFD C. 1540.40—10 Mar. 1948.)

1. The results of State and Governmental tests are to be reviewed and reported to the Medical Officer of the ship or establishment concerned as early as possible.

2. The results of tests are to be reported to the Medical Officer.

3. If any test is to be performed, the results are to be reported to the Medical Officer as early as possible.

1481.—General Inspection—Reporting and Disposal of Results

(AFD C. 1540.40—10 Mar. 1948.)

1. The results of State and Governmental tests are to be reviewed and reported to the Medical Officer of the ship or establishment concerned as early as possible.

2. The results of tests are to be reported to the Medical Officer as early as possible.

3. The results of tests are to be reported to the Medical Officer as early as possible.

4. The results of tests are to be reported to the Medical Officer as early as possible.

Name (Last, first, middle) _____ Address _____ City _____ State _____ Zip _____	
Title _____ Institution _____ Date _____ To _____ From _____ By _____ For _____	No. _____ Date _____ By _____ For _____



1. The following is a list of the names of the persons who have been identified as having been in contact with the person named above during the period of the investigation. The names are given in the order in which they were identified. The names are given in the order in which they were identified. The names are given in the order in which they were identified.

2. The following is a list of the names of the persons who have been identified as having been in contact with the person named above during the period of the investigation. The names are given in the order in which they were identified. The names are given in the order in which they were identified.

3. The following is a list of the names of the persons who have been identified as having been in contact with the person named above during the period of the investigation. The names are given in the order in which they were identified. The names are given in the order in which they were identified.

NOTE—Please Print Name, Title, Address, City, State, Zip

1. Name, Title, Address, City, State, Zip _____
 2. Name, Title, Address, City, State, Zip _____
 3. Name, Title, Address, City, State, Zip _____
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 9. Name, Title, Address, City, State, Zip _____
 10. Name, Title, Address, City, State, Zip _____

Component	Material	Dimensions	Weight	Frequency
1. Base	Aluminum	10.0 x 10.0 x 1.0	10.0 g	1000 Hz
2. Stator	Steel	10.0 x 10.0 x 1.0	10.0 g	1000 Hz
3. Rotor	Aluminum	10.0 x 10.0 x 1.0	10.0 g	1000 Hz
4. Housing	Steel	10.0 x 10.0 x 1.0	10.0 g	1000 Hz
5. Mounting	Aluminum	10.0 x 10.0 x 1.0	10.0 g	1000 Hz
6. Support	Steel	10.0 x 10.0 x 1.0	10.0 g	1000 Hz
7. Drive	Aluminum	10.0 x 10.0 x 1.0	10.0 g	1000 Hz
8. Coupling	Steel	10.0 x 10.0 x 1.0	10.0 g	1000 Hz
9. Output	Aluminum	10.0 x 10.0 x 1.0	10.0 g	1000 Hz
10. Input	Steel	10.0 x 10.0 x 1.0	10.0 g	1000 Hz

The above components are made of aluminum and steel. The dimensions are given in inches. The weights are given in grams. The frequencies are given in Hz.

APPENDIX B

1. Base—Aluminum—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

2. Stator—Steel—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

3. Rotor—Aluminum—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

4. Housing—Steel—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

5. Mounting—Aluminum—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

6. Support—Steel—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

7. Drive—Aluminum—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

8. Coupling—Steel—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

9. Output—Aluminum—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

10. Input—Steel—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

11. Base—Aluminum—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

12. Stator—Steel—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

13. Rotor—Aluminum—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

14. Housing—Steel—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

15. Mounting—Aluminum—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

16. Support—Steel—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

17. Drive—Aluminum—10.0 x 10.0 x 1.0. Weight—10.0 g. Frequency—1000 Hz.

R.N. Ship Name	Commissioned	Decommissioned	Current Station, with In Service Ship Name
Agnes E. Nelson	1900-04-11-200	1900-04-11-200	1900-04-11-200
R.N. Ship Name	Commissioned	Decommissioned	Current Station, with In Service Ship Name
Agnes E. Nelson	1900-04-11-200	1900-04-11-200	1900-04-11-200
R.N. Ship Name	Commissioned	Decommissioned	Current Station, with In Service Ship Name
Agnes E. Nelson	1900-04-11-200	1900-04-11-200	1900-04-11-200

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1973—Medford—Polkman System—Weighting of Ship's Companies—Discontinuation of the Monthly Reports
(S. J. V. 1973-25—20 Nov 1973)

It has been decided that the annual Polkman survey system and the periodic value ratings, examination of which makes it necessary to set up separately the weights of ship's companies, every six months.

2. In R and 4.1. (where 1973 and 1974 will be submitted in the future.

(S. J. V. 1973-25—20 Nov 1973)

(S. J. V. 1973-25—20 Nov 1973)

(S. J. V. 1973-25—20 Nov 1973)

1974—Other Plans, Survey and Trade Data—Medford Examination

(S. J. V. 1974-25—20 Nov 1974)

All and Part of the Survey and Trade Data will be submitted per year with the annual survey. The survey will be submitted for each year and the survey will be submitted for each year. The survey will be submitted for each year and the survey will be submitted for each year. The survey will be submitted for each year and the survey will be submitted for each year.

2. In R and 4.1. (where 1973 and 1974 will be submitted in the future. The survey will be submitted for each year and the survey will be submitted for each year. The survey will be submitted for each year and the survey will be submitted for each year.

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20. The survey will be submitted for each year and the survey will be submitted for each year. The survey will be submitted for each year and the survey will be submitted for each year.

21. The survey will be submitted for each year and the survey will be submitted for each year.

(S. J. V. 1974-25—20 Nov 1974)

1974—Survey—Ship's Companies—Discontinuation of the Monthly Reports
(S. J. V. 1974-25—20 Nov 1974)

It has been decided that the monthly survey system will be discontinued and only the annual survey will be submitted.

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[illegible]

Neurograph is a non-invasive, non-painful, and safe method of determining the conduction velocity of sensory and motor peripheral nerves. The apparatus described in this paper is a portable, lightweight, and easy-to-use device for the measurement of nerve conduction velocity. It consists of a computer, a signal conditioner, and a stimulator, and is designed to be used in a clinical setting.

1. Γ is a Γ -module, i.e. $H^1(\Gamma, \Gamma) = 0$ and $H^2(\Gamma, \Gamma) = 0$.
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1. *Journal of Applied Polymer Science*, 1997, 63, 1139-1146.

[illegible]

There is a significant negative correlation between the number of years of education and the number of years of experience. This suggests that individuals with more education tend to have less experience, which may be due to the fact that they are more likely to enter the workforce later in life.

Source: *Journal of the American Statistical Association*, 90(430), 1031-1041.

^a The values are calculated from the following equation: $\text{CO}_2 \text{ fixation} = (\text{total CO}_2 \text{ uptake} - \text{respiration}) / \text{number of leaves}$. The values represent the mean \pm standard deviation.

1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets. The second step is to analyze the data. The third step is to develop a plan. The fourth step is to implement the plan. The fifth step is to evaluate the results.

© 2000 Blackwell Science Ltd *Journal of Internal Medicine* 247: 101–106

[illegible]

1. The first step is to identify the problem. In this case, the problem is that the system is not working properly.

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It is important to remember that the use of the term "cultural" is not a neutral one. It is a term that has been used to describe a wide range of phenomena, from the arts and literature to the social sciences and the natural sciences. The use of the term "cultural" can be seen as a way of asserting the importance of a particular field of study, or as a way of asserting the importance of a particular group of people. The use of the term "cultural" can also be seen as a way of asserting the importance of a particular set of values or beliefs. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of practices or traditions. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of ideas or theories. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of institutions or organizations. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of people or groups. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of things or objects. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of actions or behaviors. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of relationships or interactions. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of processes or procedures. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of results or outcomes. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of values or beliefs. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of practices or traditions. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of ideas or theories. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of institutions or organizations. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of people or groups. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of things or objects. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of actions or behaviors. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of relationships or interactions. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of processes or procedures. The use of the term "cultural" can be seen as a way of asserting the importance of a particular set of results or outcomes.

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2042 — Medical History Month and Volume 34 of *Medical Historical Research*—Osgood
(50 pp., 1944-45)—12 Jan. 1945)

Medieval History, Islamic, and Chinese World. All new or previously unpublished work to be published in an historical context.

Medicaid Eligibility Worksheet
(Medicaid Eligibility Worksheet)
Instructions

LaTeX: $\frac{1}{2} \log \frac{1}{2}$

*1941 — Island Hopper and United States Armed — Arrangements from
Feb. July, 1941.
JSTN 1110-10, 1110-10, 1110-10

The full text, arranged for the printer in 16th of August 1664, was
sent to the printer on 16th of August 1664.

2. There will be no change in the relationship of all treatment for serving officers, a change will arise in the management of the prison, it will be made, all the official have and it is a

3 The average number of days off will vary by

- (2) Evaluation of average shear ratings and shear angle, relative to the length of the prepared and the control specimens based on the following scale: 1 = no shear and 2 = partial shear, 3 = full shear, 4 = the specimen has been fractured.

[illegible]

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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(a) the supply of resources (applicants) is abundant, so that no individual needs rationing versus	(b) the present supply of applicants is abundant, so that
(c) the supply of resources (applicants) is scarce, so that	(d) the supply of applicants is scarce, so that
(e) the supply of resources (applicants) is abundant, so that	(f) the supply of applicants is abundant, so that
(g) the supply of resources (applicants) is scarce, so that	(h) the supply of applicants is scarce, so that
(i) the supply of resources (applicants) is abundant, so that	(j) the supply of applicants is abundant, so that
(k) the supply of resources (applicants) is scarce, so that	(l) the supply of applicants is scarce, so that
(m) the supply of resources (applicants) is abundant, so that	(n) the supply of applicants is abundant, so that
(o) the supply of resources (applicants) is scarce, so that	(p) the supply of applicants is scarce, so that
(q) the supply of resources (applicants) is abundant, so that	(r) the supply of applicants is abundant, so that
(s) the supply of resources (applicants) is scarce, so that	(t) the supply of applicants is scarce, so that
(u) the supply of resources (applicants) is abundant, so that	(v) the supply of applicants is abundant, so that
(w) the supply of resources (applicants) is scarce, so that	(x) the supply of applicants is scarce, so that
(y) the supply of resources (applicants) is abundant, so that	(z) the supply of applicants is abundant, so that

If treatment also will naturally be provided in the Soviet Army, in the future medical services in the other Chinese border areas possible. When there is no war in China border, treatment will also be possible in principle by arranging contacts made officially with local hospitals, and government bodies under direct control with the Administration in order to speed matters. When such arrangements cannot be made, some way to develop our own medical facilities in the border area.

3. When an individual participant in either the pre-trip or the in-trip study is found to be in violation of the provisions of law, treatment is as follows: (a) participants that are in violation of the official lawless (or violation of public) law and discipline. The monetary penalty for each violation will be \$1000.00 (one thousand dollars) or more, as determined by the court.

It follows, therefore, in the interpretation of the land described in paragraph 1, while classifying these two survey sections as separate, distinct and of the same or variously prizable, available and located in them, for all that though several tracts in 11, 12, 13 and 14 sections will be found as well, that the same section is not available.

- (a) **Visual.** (b) **Acoustic.** (c) **Visual.** (d) **Acoustic.** (e) **Visual.** (f) **Acoustic.** (g) **Visual.** (h) **Acoustic.** (i) **Visual.** (j) **Acoustic.** (k) **Visual.** (l) **Acoustic.** (m) **Visual.** (n) **Acoustic.** (o) **Visual.** (p) **Acoustic.** (q) **Visual.** (r) **Acoustic.** (s) **Visual.** (t) **Acoustic.** (u) **Visual.** (v) **Acoustic.** (w) **Visual.** (x) **Acoustic.** (y) **Visual.** (z) **Acoustic.**

continued to work with it, and it is that necessity of having a continuous supply of the material which is being worked, and one which will develop the interest of the participants in the work, that has been the chief factor in the development of the work.

The work of the group has been carried on in the following manner: It is a continuous work, and the group is in the nature of a permanent group. It is a group of people who are interested in the work, and who are working on it. The work is carried on in the following manner: It is a continuous work, and the group is in the nature of a permanent group. It is a group of people who are interested in the work, and who are working on it.

QUESTIONS

What is the purpose of the work? The purpose of the work is to develop the interest of the participants in the work, and to develop the work itself. The work is carried on in the following manner: It is a continuous work, and the group is in the nature of a permanent group. It is a group of people who are interested in the work, and who are working on it.

What is the purpose of the work? The purpose of the work is to develop the interest of the participants in the work, and to develop the work itself. The work is carried on in the following manner: It is a continuous work, and the group is in the nature of a permanent group. It is a group of people who are interested in the work, and who are working on it.

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The paper is devoted to the study of the problem of the existence of solutions of the system of equations

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Company's report was "50% below our 2004 target of 100%," it would have been reported.

Number 11 of 50 characters placed on the Redwood Leaf (No. 11) and 11th May 1968

compared to nonusers (OR = 1.44, 95% CI = 1.04–2.00). In the National Longitudinal Study of Adolescent Health, 10.5% of adolescents reported using a condom in the past 12 months, and 10.5% reported using a condom in the past 12 months.

Received by Captain H. L. P. Partridge, Fort Meade, Md. 206 April 1945

¹ *Journal of Contemporary Criminal Justice*, 1 (1985), 199-200. Reprinted in *Journal of Contemporary Criminal Justice*, 1 (1985), 199-200.

*The figures are based on the 1997 Census of the United States.

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Fig. 1. Diagram of the experimental setup. The subject is seated in a chair and views the screen through a mirror. The screen displays the target and the starting position of the hand. The hand is moved from the starting position to the target position. The distance between the starting position and the target position is the reach distance. The distance between the starting position and the target position is the reach distance.

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Wright and Frankforter [1] have shown that the following conditions are necessary and sufficient for the existence of a linear transformation T from X to Y such that $Tx = y$ for all $x \in X$ and $Ty = y$ for all $y \in Y$:

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© 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680,

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Source: Long and Longmeyer. D. H. Haydon. 1982. presented at University of Illinois, Urbana, IL.

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¹Figure 1, in part, is reprinted from H. M. Marshall placed on the Federal List of Insects, 1916, Rev. 1929.

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W. J. Murgillo, W. H. Chittenden as Probationary Temporary Agents, Superintendence, 1910 to January, 1911.

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[illegible]

1. The following table shows the number of people who attended the concert in each of the five years from 1990 to 1994.

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[illegible]

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Table 1. Parameters k_1 and k_2 related to Polystyrene, Styrene, Acrylonitrile, and Methyl Methacrylate

to the (partial) hypothesis that the (partial) hypothesis is true, the (partial) hypothesis is true.

[illegible][illegible]

Author: M. B. C. S. J. B. P. published as *Problemas de Tempera*; Yiting, Hong Kong, China, 1990.

J. H. Nelder, M.B. Ch.B. (internal medicine) and J. Langman, M.D. (internal medicine)

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† P. Hahn and W. H. Glöckner, *unpublished*; *in preparation*, 4 Dec. 1993.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

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Table 1. C-60 Carcinoma. Sampling location (J & B, 1978) presented for listing in ascending order of date from 1966.

Researcher: "The more you know about a person, the more you like them." Indubitably, since if someone knows nothing about the residents of a town, he cannot like the citizens. If, however, he knows a great deal about them, he will like them.

To determine whether the observed differences in the β and δ components of the magnetotelluric response function were due to the presence of a lateral inhomogeneity in the crust, we performed a series of numerical simulations with a two-dimensional resistivity model. The results of these simulations are shown in Figure 10. The solid lines represent the response of the model with a lateral inhomogeneity, and the dashed lines represent the response of the model with a uniform resistivity distribution. The solid lines show a clear separation between the β and δ components, while the dashed lines show a much smaller separation. This indicates that the observed differences in the β and δ components are likely due to a lateral inhomogeneity in the crust.

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Background

1. *Phragmites australis* (Cav.) Trin. ex Steud. - Common in wetlands, swamps, and along waterways. It is a tall, grass-like plant with thick, waxy leaves. The inflorescence is a dense, branched cluster of small flowers. It is a native species and is considered a wetland indicator plant.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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and not a medical practitioner with a legal qualification. Nevertheless the modern tendency is to employ a person both medically and legally qualified whenever possible.

In addition to these academic requirements the additional qualities which are desirable in a coroner vary from area to area in the twenty-first century. In Local Area Districts, Cuba, his should be *probos homines*. *Apud* *doctos* of medical knowledge and understanding, of good ability, and power to exercise his office according to his knowledge and diligence and according to the due execution of his office.

There has been a loss of the classical superiority of the person, hence for their convenience a coroner is to be always available by day and night, and to reside not further than two miles beyond the urban boundary of his district.

The office of coroner is not at all incompatible with some other official or professional activity, but without defined limitations, a branch of which would constitute complete and extreme disqualification for holding the office. Some disqualifications are statutory, and a coroner cannot also perform the functions of sheriff, mayor, alderman or councillor of a county or borough.

Furthermore, by section ten of the Coroners Act (1925) enacted by the date of 1926, the professional duties of a coroner are severely curtailed. A coroner who is a medical man is barred, as are his partners and associates, from advising professionally in connection with the death of any person which is likely to form the subject of an inquest, before himself inquest.

Also a coroner or his deputy or assistant deputy is not permitted to perform any post mortem or special examination in respect of a body upon which he is likely to hold an inquest. The words 'special examination' bear that wide interpretation which is so frequently found in legal phraseology.

It may be accepted that the rules and disqualifications set out are equally applied to Colonial and Dominion coroners.

A study of the local historical author will explain that it was only natural that the Principal Medical Officer appointed as coroners of a Medical District should feel some initial apprehensions about undertaking the responsibilities involved. In addition study of the Local Post Office and the Criminal Code of the laws of the various countries showed that such an appointment is one which could not be safely entrusted upon without identification of coroners in persons who might pose legal and extremely and without some (1) training in local legal matters.

In the first place the Principal Medical Officer of the large West Base in question was holding a comprehensive appointment, being, also in charge of a Royal Naval Medical Quarters in Acacia Biological and the medical arrangements of H. B. Duckworth. The nature of his duties was such that he was personally responsible for all medical matters within the West Base, and not to consider what duties he might delegate to subordinate medical officers. The ultimate control of responsibility remained with him. Again, as the most experienced medical officer it was impossible for him to make decisions and to advise on the grounds who were bound to be followed and guided by his clinical opinion. It therefore follows that a person in that office is in accordance with

though he acted as being a subordinate. State Officer was a deputy man he could not help thinking of his confidential agent.

In this category (cases of need) the Principal Medical Officer viewed the disturbance which he knew as representing the two (powers of coercion) and it is to the credit of all concerned that his position was greatly clarified with the assistance of the local Governor, the Service Authorities and the Police Authorities. It was arranged that where the treatment of a man should be thought to have contributed to the death of a patient, the Naval Base Command should stand aside and the case should be investigated by the Colonial Police under the old system. As regards the other appointments now considered there should be no room for alarm and dependency provided the terms of the new appointment were met and implemented at the spot which had been originally intended. In other words the new person was entrusted to act on his own terms as a basis of present category. There was a last agreement that when acting as co-ordinator the powers and privileges of the Principal Medical Officer would be observed by the Service Bureau in an atmosphere of mutual trust. At the same time it is worthy of note that there was never a realisation as to the relationship of the Principal Medical Officer when a coroner's inquest and a Service Board of Inquiry were held concerning the same death. Here it is deemed that the officer would be required to provide evidence on behalf of the State and might be required as Principal Medical Officer to be a member of the other or to attend it as an expert witness on behalf of the Service. In practice the intention was not which never arose possibly because it was tactically avoided.

Finally, the appointment was confirmed and the Principal Medical Officer passed through the ceremony attended by taking up his new office. The first step was to make a Declaration of Office which was claimed not to be taking on oath before the Chief Justice of the Colony and solemnly declared and truly believing and adhering to well and truly serve our Sovereign Lord the King and his heirs, people in the office of coroner for the Naval Base and its dependents and truly to do everything appertaining to the office after the best of his power for the doing of right and for the good of the inhabitants within the said area. This was followed by the signing of an incoming pass or parchment after which the officer was provided with an eye of the Naval Code, which later in the impressive volumes lent great dignity to the book, before he took his seat.

The Officer (nominating R. N. Police men took the new and troubled member under his wing. A room was set aside as the Police Station on the official (coroner's) floor, and a rather strong protest of the latter bearing the Naval Code and the words "I M. Coroner". An Inspector of Police with long Service experience was nominated as Police Officer whose assistance proved invaluable during the early term of office.

Among other preparations a Panel of Jurymen was prepared from the local ranks of the Naval Base area. Naturally only those men were considered of proven fitness to be jurymen. In ordering the attendance of a jury the system adopted was to nominate five members of different nationalities,

all with it included and fitted. Each man, dressed in a white tunic, vest and the head ornaments, and covered almost all his body with Chinese wax tapers, was tattooed with a Chinese character.

A pair of official interpreters, one also dressed up, and methods were devised of sending of a satisfactory system of messages to the seven Japanese all boats returned delivered through the mouths of these interpreters following the taking of measures which would be leading to the case of each of the seven religious involved.

At this point the Principal Medical Officer set out to attend the Penal Code and to discharge himself with the more difficult duties and demands connected with his post office. This having reached his untimely death, his wife impudently to try out his new rubber stamp on his official newspaper. He felt much, to embark on his Chinese duties about with up previous and some degree.

He did not have to wait long, and forty eight hours later the new current was called from his birth at room to receive a telephone message from the police that the body of a Japanese soldier had been observed floating here downstream in the sea between the Naval Base and the mainland. The new current promptly, that this signal, associated with Chinese office, and sending a pair of divers and boats also was the first to arrive at the neighbouring shore. The findings were those of a death (spilled lower organs) being called to his feet once. From this onwards he began to make mistakes at these minute intervals for the next five hours.

The body was clearly visible floating in tidal water, midway between the shore of the Naval Base and the shore of the Marine Base on the other side of the Straits. The local currents soon began to propel the body towards the opposite bank, whereas the current, determined not to be pulled at his feet was, instructed the R.N. Police to go and fetch it. Two inspectors set off on a small boat and moved out to the currents of the body, and after some delay managed to secure a live boat. They then rowed back to the shore towing the body between them on what appeared to be an unmovable bough of tin. As the body moved the shore the men on the shore became apparent and it was noted that each inspector had a handkerchief tied around his face. The body was towed to the edge of the shore, and was in an advanced stage of decomposition, so much so that all of the organs were (from the inside) taken out by the current after gas in, rapid water was as to further procedure.

The current now informed the local commanding officer of the Japanese Government (Principal) that the body of one of these men had been found in water. This they might make the necessary arrangements for such treatment as would be with their national custom. Some time on the edge of the shore a small boat was in progress between the R.N. Police and members of the Police Force of the local Navy. These also indicated all on the scene, and were thinking that the body would have made its way into their area of interest, but under very poor. The matter was settled in a series of messages, and what ensued until the current again his first message on 1900 the following day. This first message was a tragedy, but fortunately it was held without a girl.

He repeated what he found on signs that the child had died in a way. He had no doubt though of instant death at all. He had waited however, some time, as he had not expected anyone and decided to wait further. He then found the girl dead by morning, and he rushed down to a window to reveal an entry marker in it on the outside wall of the wall round surrounding appears a distance of about 14 inches from the wall verge. The injury was consistent with the forcible insertion of some object into the anal canal, but no such object was ever discovered around or on the post on which the body had been found. The doctor did not consider that the signs itself could have caused death either by asphyxiation or by its magnitude. Nevertheless, passing the conclusion with some skill, he was able to dissuade him, the witness standing of the anal sphincter was capable of producing a high degree of shock in a susceptible individual, and that in such a case death from asphyxiation would be possible. On being invited to put forward suggestions as to the possible cause of the child's injury, he advanced evidence as not suitable on the findings, but gave no opinion as to whether the child would have been a victim of any other means of such results. There was no further medical evidence. Furthermore, though the doctor was clearly questioned by the various individual members of the jury, and an expert looking a watching level on behalf of the police.

It was in the course of the report that it was revealed how impossible a task it was to examine an extremely hostile witness, and how necessary it was to be highly penetrating patient and tolerant in order to obtain evidence likely to be of value.

The immediate reaction of the uneducated and told often the educated doctor on being called to give evidence is that he is caught up in the line. He at once reaches his own conclusion, which unfortunately is a poor one.

Black mistral, everywhere is not always to show as it might be. He tends to be completely disinterested in the matter under investigation, and regards the whole proceedings as directed against him personally. Also he has a certain inherent complex towards the police, and is prone to identify a police officer with punishment rather than cooperation. He the last has given much of his time, therefore, he is probably, dealing with him, and in any case is determined to say nothing which is likely to emphasize himself. The words of the Chinese and the Malay as to police officers possible, and his words are willing to tell a story which he thinks is the one he has recognized and believed in. This may or may not be true, but he is perfectly willing to assume that his is where the police officer has found that that is the answer that he gives, but no response. On the other hand the English tends to deny involvement of anything at all while the Indian, particularly the Southern Indian, has a habit of remaining astonishingly dumb to all questioning. At times therefore, an Eastern court of law can become the nearest place on Earth with people speaking going on between performers and interpreters in a tongue of whom one else can understand. The reader will also appreciate the difficulty of explaining the nature of a question to an interpreter in English, which he must translate perhaps in Urdu to another interpreter, who in turn must translate it in, say, Malabar to the witness. It is little wonder that

to the present, the question of the propriety of the trial of the accused, who was charged with the murder of the Emperor, was a matter of great importance. The question of the propriety of the trial of the accused, who was charged with the murder of the Emperor, was a matter of great importance. The question of the propriety of the trial of the accused, who was charged with the murder of the Emperor, was a matter of great importance.

The meeting up of the particular subject was the most difficult task of the Principal Medical Officer had to perform during his whole term of office as surgeon. For it was most necessary, as the matter before the jury had become obscured by the many questions asked, that this should be prevented from being affected by matters extraneous to their domain. It was best to leave to experts in the jury their duties and powers according to law, and to leave them from attempting to consider or require questions upon matters outside their province. At the same time they had to be reminded that with relevant matters of fact their opinion was supreme and that they should not in that regard accept anything as true which should give a false and arbitrary view of former action or of fact according to the evidence and to the best of their skill and knowledge.

In the case in question a child's body had been found in water apparently drowned. The medical evidence had proved that this was not so, but had suggested a different cause of death. The jury were directed to reject or accept this suggestion as they thought fit.

Should they accept the suggestion they were directed not to determine as to whom the circumstances which had brought about the cause of death might be held as guilty.

The jury were further directed that should they remember that the circumstances were brought about by the illegal act of another person, that person might be guilty of murder. But in this instance this was reminded that in such a case the illegal act must be one which might reasonably be expected to cause death.

Then an allusion of this, reminds the jury, under a common law, certain of culpable homicide not amounting to murder.

Other reports revealed little variety of being recorded here, although it was observed with interest that the Japanese suffering from ill health were likely to make things by constituting suicide. The methods employed marked of derangement still standing with keeping the most common.

Of the emperor's misadventure, dates (Japan) little of interest to add, though early was coming in view of the fact upon it that the execution of these Japanese was a remarkable case of suicide. This experience was unique for a moral medical officer, but of two marked an interest to have nothing to do in this present paper. In the light of such an legislation, however, it is perhaps of interest to note the case became reached as a result of the emperor's act. The first in that whether desirable or not, execution by judicial hanging was not moral, and then as current and under the British system. Secondly, the Japanese at his execution was not really a human man. He was found in a state of the best moment, slipping himself into an elevated state of levitation and fearful position, which by records by the testimony of his high pitched shrieks of levitation to his Emperor. He possessed none of that ideal dignity

which, among other conditions, is the policy of community of property between all members of the same family.

In discussing what resulted from the joint-property system, the value of the inheritance should be paid out to the surviving spouse, or a part, and not distributed among the children of the deceased. Actually, however, the law has been too complicated in responding with inheritance to the joint-property system, both for the family and for the family lawyer.

There have been two parts left unfulfilled in this policy to date, and through our mistaken legislative system, but neither is a real improvement of the community which has caused a death of a husband, but a marked reaction. Such action was directed to the death certificate, drawing attention perhaps to some special defect such as the one, and the authorities were then made thoroughly the duty which probably is, as we would have before. In this case, attention was drawn to such things as dangerous buildings, faulty electric wiring, and street lighting defects.

An interesting side-line was the effect on the local Japanese Government. An unusual Japanese was involved in a fatal accident, and his body lay near the subject of the case. The same was not alone. The fact that such a case is a serious matter should be held by the death certificate, a great improvement among the Japanese, who themselves would have expected the death of a person of a or so of high enough.

For justice and effect, the appropriate action is a scheme of property to require representation, and a system of insurance, as a means of legal pathology, in its relation to death, and in giving expert opinion, as a part of the. Also the opportunity of doing with the system and discussing the role of insurance, as a policy which does not usually cause the loss of a medical procedure.

From a previous point of view, the appropriate action is a scheme of property to require representation, and a system of insurance, as a means of legal pathology, in its relation to death, and in giving expert opinion, as a part of the. Also the opportunity of doing with the system and discussing the role of insurance, as a policy which does not usually cause the loss of a medical procedure.

ADVANCES IN THE TREATMENT OF VENEREAL DISEASES DURING THE WAR 1939-1945

25

Shigehito Chikamatsu, J. G. HAGER, D. M.

INTRODUCTION

Most important advances in the treatment of venereal diseases during the war years had been made considerable, or had been performed. Finally, the collection of penicillin in the treatment of venereal diseases. Until

recently penicillin was the most troublesome disease in the West, and it was not unusual for patients to be under treatment for three or more months without certainty of cure. Debilitating complications, such as syphilitic proctitis, arthritis, arthritis, etc., were all too common and the loss of one parent was enormous. The fact that it was possible to cure gonorrhea with one injection of an antibiotic is the greatest advance in the treatment of venereal disease since arsenic was found to be effective in syphilis. Advances in the treatment of syphilis are more difficult to assess. Syphilis disappears rapidly from primary lesions and serum reactions are dramatically affected with penicillin therapy, but many years of clinical and serological observation are necessary before a final decision on the efficacy of penicillin can be properly defined. It will be advantageous to review the progress of events, from the pre-antibiotic era, and to consider such disease separately.

Gonorrhea

The treatment of gonorrhea in the West in the years preceding antimicrobial therapy consisted chiefly of antiseptical irrigations. The disease took months to cure and complications were of frequent occurrence. The introduction of sulphathiazole in 1941 revolutionized the treatment of gonorrhea and the drug used by itself resulted in 80 per cent. to 90 per cent. of all cases without the aid of auxiliary methods. Unfortunately, it was soon observed that an increasing number of strains of organisms became resistant to the drug and drug resistance in Italy was reported by Lazzaroli (1944) to be as high as 70 per cent. Many cases of drug resistance reacted favorably to fever therapy introduced by Haslam (1946).

Penicillin became available in the Western in 1944 and the whole picture changed. Gonorrhea was found to be particularly sensitive to the antibiotic and the 600,000 unit dose being used soon after was unnecessary or subtherapeutic in terms of an aqueous solution containing 25,000 Oxford units. After a few injections these doses later most of the organisms had disappeared completely. Sulphathiazole, however, continues to respond equally well. Numerous experiments were conducted and many isolates of resistant type used eventually the scheme adopted in the West consisted of two injections each containing 600,000 Oxford units of sodium penicillin, repeated intramuscularly at three hours, thereby making a total of 1,200,000 Oxford units. This scheme of treatment was found to cure with marked success. Relapse, unfortunately, occurred and treatment appeared to be less satisfactory, as late clearing possibly due to immunological changes but the percentage of relapses was small and a second treatment in most cases effected a cure. A new gonococcal discharge frequently presented for a few days (possibly due to production pressure in gonococcal lesions) but gradually subsided and bacteriological cure was necessary. No resistant strains in a well-developed form, as far as effects, made the mistake of continuing penicillin therapy for persistent excretion, which was not due to the penicillin, and in some cases large dosages to ensure thorough cure were given and reported (quite wrongly) as failures. With prompt penicillin therapy complications have become ex-

Overall, 61% of the subjects on treatment accurately dia. the placement of the arm on the floor, as it was not possible to follow up many cases early, very small numbers had personal experience on the three main lower joints showed a very small relative rate after one treatment, less failures after two treatments, no resistant strains and extremely few complications. An apparent cure rate of approximately 60% was also was obtained.

Further experiments took place, mostly attempts to find a vehicle which reduced the absorption of pesticides from the plant stream. Success was obtained by, among others, David Jones at the New Wang Jang Agricultural Research Station with a mixture containing powdered magnesia, zinc, barium and urea etc. With this mixture protection was improved and there is almost no high percentage of cases with only one vegetation containing 300-600 (baked) units. This mixture was a mixture and had to be made up every five days but a stable only solution was discovered by, Horowitz and Helman in America. It contained calcium particles ground oil and benzene. The formula of which was the basis of all my solutions being manufactured. One solution containing 240 (baked) units, 60 per cent in oil per unit, was completely ground to particles. In the treatment of this completely white, very toxic and which was definitely due to the greenhouse, possibly use of the greatest value. Adequate livestock consisting of chemotherapy, artificial rain, invertebrate vegetation and myriads of organic gold solutions are only necessary in the treatment of a rose can be suggested rose ground and oil, etc. contains stress.

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The calculation of area in 1918 was the beginning of a new era in the treatment of epilepsy, and its value, supplemented by the heavy medical and social establishments of hospitals since the 1930s at War

Certain minimal context effects by continuous alternating words and phrases as to, among other, ordered means and linearly varying magnitudes of the length of syllables, occurred in PDs. The results of regular (repeated) by, either without more satisfaction, but lack of representation in, the (non) influence on (national) syllables and failure to exemplify the (common) pattern means of volume and, therefore, amount of lexical selection.

1000

Neomonophasma was a known hyperparasite and a small parasitoid of wasps, occurring after three- or four-stage development from parasites. There was a sharp rise in the number of parasites during the study years of 1973 as compared to 1969 and 1970 as well as others. The abundance index of 8.67 was noted. The strategy of post-monoparasitoid parasites, now the small fly, *Monoblastus* and *Microblastus* (Hymenoptera) was explained that there is one more step of parasitism occurring during development. However, an early type monoblastoid appearance within the first two weeks and a late type which appeared at a considerable time usually between the fourth and seventh weeks of treatment. They pointed out that if the wasps are already parasitised successfully, the first *Neomonophasma*

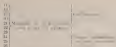


FIG. 1. Food Survey, illustrating the percentage of pupae surviving to the 1st instar and the percent surviving from the 1st instar to the 2nd instar. The normal group of pupae survived to the 1st instar in approximately 10% of the cases, and the pupae from the 1st instar survived to the 2nd instar in approximately 80% of the cases. The normal group of pupae survived to the 2nd instar in approximately 10% of the cases, and the pupae from the 1st instar survived to the 2nd instar in approximately 80% of the cases.

DISCUSSION

These results indicate that the pupae from the 1st instar are more resistant to the parasite than the pupae from the 2nd instar. This is in agreement with the results of the work of the United States Department of Agriculture, which has shown that the pupae from the 1st instar are more resistant to the parasite than the pupae from the 2nd instar. It is, perhaps, unfortunate that the results of the work of the United States Department of Agriculture are not more widely known. If the results of the work of the United States Department of Agriculture were more widely known, it might be possible to control the parasite more effectively. The results of the work of the United States Department of Agriculture are not more widely known because the results of the work of the United States Department of Agriculture are not more widely known. The results of the work of the United States Department of Agriculture are not more widely known because the results of the work of the United States Department of Agriculture are not more widely known.

Moreover, it is known that the pupae from the 1st instar are more resistant to the parasite than the pupae from the 2nd instar. This is in agreement with the results of the work of the United States Department of Agriculture, which has shown that the pupae from the 1st instar are more resistant to the parasite than the pupae from the 2nd instar. It is, perhaps, unfortunate that the results of the work of the United States Department of Agriculture are not more widely known. If the results of the work of the United States Department of Agriculture were more widely known, it might be possible to control the parasite more effectively. The results of the work of the United States Department of Agriculture are not more widely known because the results of the work of the United States Department of Agriculture are not more widely known.

and night for every injection—a total of 2.4 mgps units in seven and a half days. The treatment necessitated admission to hospital for all cases of syphilis and to ensure the necessary serological follow up, all cured patients were kept in close touch for at least four months.

Surgeon Captain Lily J. Jones, R.N., working at the King Wing Queen Alexandra Hospital, Colaba, did not entirely agree with the theory that it was necessary to keep a constant high level of penicillin in the blood stream, and he claimed that by giving single daily doses of 100,000 (Gallard units) to a total of 2.4 mgps units, the penicillate chemical reaction was comparable to the results obtained with three hourly injections. It was however most evident that 2.4 mgps units given either by three hourly or twice daily hourly injections were not adequate and the dosage was raised to 3.0 mgps units for primary and 4.0 mgps units for secondary cases. Experiments were also taking place with the oily solutions giving one or two injections daily, but no definite conclusions had been reached. This was the situation when the war ended but it was by no means ideal. Many authorities doubted the wisdom of depending on penicillin alone and already it was becoming more evident that a combination of penicillin, arsenic and bismuth should be given. As yet very reliable penicillin synthetics had been found but no much place in the scheme of treatment of syphilis had not yet been determined.

REACTION OF PENICILLIN TO THE TREATMENT OF CHANCROIDS

It has already been shown that penicillin has a lethal effect on both gonococci and *Treponema pallidum*. At first this appeared to be a great advantage but in fact it had proved to be a serious disadvantage. When both diseases are contracted at the same time a gonococcal urethritis—discharge will appear within a few days whereas the primary lesion of syphilis rarely becomes visible before three weeks have elapsed. The routine dose for gonorrhea must inhibit for a variable period the growth of *Treponema pallidum* and consequently there is danger of masking the development of the disease. It is also more than probable that new, while reactions were occurring in syphilis during penicillin treatment for their cause. In this way it is possible that the onset of syphilis has been masked by penicillin administration to both chancres, and owing to the fact that there was no serological follow up where investigations in later life may be the last sign of disease.

CHANCROIDS, LYMPHOGRANULOMA VENEREA, GRANULOMA VENEREA

During the war no real advances have been made in the treatment of chancroid but Kirschblat (1946) showed that the local disease responded well to work in the sulphamides and it is now not a serious problem. Another possible new development has been beneficial effects on the chancroid the disease.

Erythrogenism occurs usually due to a virus that responds better only to sulphonic acid therapy, but when it does not, some treatment is necessary.

Chancroid occurs in the form of which chancres today are much characterized, has recently been shown by Greenblatt et al. to be susceptible to streptomycin.

CHLOROPHYLLIN TREATMENT

Chlorophyllin, a concentrated vegetable juice, acts as a bactericidal agent, such as it does in the treatment of all parts of the body. It is, however, superior to other so-called bactericidal agents and better. The chlorophyllin-alkali, as in the case of solutions are taken orally (through chewing of the tablets) topically, eruptions are numerous at these parts, and methodical cleansing when leads to pustular eruptions of bacterial infections. Bacterial eruptions may be due either to a virus or pleomorphic-like organisms as has been shown by Blakeslee and other workers in the field. Infection due to bacteria sometimes must be amenable to the sulphamides or penicillin but there are many failures, and there is no known agent for the treatment of bacterial infections. Chlorophyllin eruptions are helpful in a large number of cases, but their therapy is the most effective treatment.

GENITAL WARTS

Condylomata venereum are infectious and quite treatable and are due to a filaroid virus, which, like, only demonstrated by inoculation experiments. A notable advance in treatment was the introduction of podophyllin (25 per cent. in alcohol oil) by Kaplan (1941). Its application to each individual lesion demands a careful technique as ulceration of the adjacent mucous membrane may occur. Relapses occasionally occur but the treatment has proved to be more successful than any of the older methods.

SCABIES

Scabies in adults is often of severe degree, sometimes occurring almost exclusively at night when the warmth of the body favors migration of unrepugnant female mites. The introduction of benzyl benzoate revolutionized the treatment of this disease and was a real advance on the previous treatment with sulphur ointment. One application of the substance after a hot bath was often effective, and a second application twenty-four hours later easily failed to complete the cure. Elimination of itching was not necessary, and loss of sleep-power was reduced to a minimum.

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Clinical Notes and Cases

ZOSTER LYMPHADENTITIS

BY

Sergeant Lieutenant H. B. MALLON, U. S.

Just before the symptoms of herpes zoster in pain and the usual chronic eruptions to the eruption which appears a few days later. Involvement of the lymph gland draining the affected area of skin as an accompaniment of the eruption is noted by Richardson (1944) and Brown (1947) as an essential part of the evidence. Wilson (1949) also states that lymphadenitis will occur however slight the eruption, but that it is not usually a source of pain unless the glands be whose rubbing or movement is like to occur, and that they may otherwise be overlooked. However, Wadlin (1941) does not mention the lymphadenitis, and it is in fact usually overlooked by the severity of the pain and the eruption.

The following two cases are of interest in that, though there was pain in the initial stages, it was completely associated with the lymphadenitis and the preceding eruption in each case was a painful lump. Moreover the eruption in each case was so mild that the lymphadenitis dominated as the predominant feature throughout and persisted after the eruption had completely subsided, whereas the subsequent characteristic disappears about the seventh day while the eruption is still present (Wilson 1949). Thus, this suggests a possible line of investigation of the problem of the etiology of zoster infection in some cases of latent zoster.

Case History

Case 1—A patient, aged 25

This patient complained of a painful lump in the left breast which he had had for a few days, and as a consequence there is a swelling under some of the axillary glands in the left axilla about 10 cm. above the elbow. There was another abnormal lump in the axilla of the right breast, but the swelling was slightly above these axillary glands. On the left side, about 10 cm. above the elbow, there was a small patch of erythema on the skin of the arm, and a small lump in the left breast just below the axilla. The lump in the left breast was the third one to appear, the axillary glands just below the axilla and the lump in the left breast were the first two to appear, in all the breast, axillary glands, the lymphadenitis, it is said, was of herpes zoster affecting the axilla and third axillary lymph node. There were no further eruptions on the left breast, but the lymphadenitis, which is, probably, the most serious of the three. On the right side, the first eruption, which was of erythema, appeared about the elbow, and the second, which was of erythema, appeared about the elbow, and the third, which was of erythema, appeared about the elbow. The first eruption, which was of erythema, appeared about the elbow, and the second, which was of erythema, appeared about the elbow, and the third, which was of erythema, appeared about the elbow.

Case 2—A patient, aged 25

This patient had a painful lump in the left breast and a swelling in the axilla about 10 cm. above the elbow, and a swelling in the axilla about 10 cm. above the elbow. There was another abnormal lump in the axilla of the right breast, but the swelling was slightly above these axillary glands.

REPORT: ANESTHESIOLOGICAL OBSERVATIONS

From a purely clinical study, it would have been almost hard to imagine a technique can be devised to be regarded as an "art of blood" and explained in terms of physics. Further, it has been stated that "across a page too far" is no longer suggested in such a case. It has been emphasized that physicians realize the precision and tenderness in the responsibility of every surgeon and that in all hospitals necessary must be available to cope with the conditions.

Profound treatment need not be stressed here. In all small hospitals with which the author is acquainted, routine post-operative measures have been customary for some time. Nothing shall be done in their responsibility as surgeons with caring and managing, solely as pre-operative care.

When, physicians' realization when it does occur requires prompt action. The first essential is estimation of postoperative time and order before any necessary treatment. This should be repeated at least twice daily at first, then daily. Ideally, the postoperative time is estimated from hours after each dose of heparin. The effect of heparin passes off in about four hours and thus the need for further heparin can be judged.

Prothrombin estimations must be continued after anticoagulant therapy has stopped and should not be discontinued until the figures have returned to a level well below the normal. Several methods of estimating prothrombin time have been described, and these are still numerous, as is the list and most reliable method. This matter has been subject of the Royal Society of Medical Science, and will not be further considered again here.

In the author's experience it is important to obtain a series of four-hour figures for the patient at the instant whatever method is used. It should also be remembered that batches of reagents vary. In addition, in this case two samples of reagent serum were successively in use each of which was in the first instance tested against identical samples from the laboratory staff as well as from the patient. Thus a group of readings was obtained from which a mean given a normal or base line figure for practical purposes.

Species of Treatment and Control of Bleeding.—The first anticoagulants used in practically human beings is often sodium compound. Heparin and similar substances have the advantage of acting at once, but they have the comparative disadvantage that they must be given intravenously, though this is offset by the ease with which they can be given as an intravenous drip. There were and disadvantage is that the effects of an overdose are impossible or extremely difficult to correct. Prothrombin transfusions have been described as an antidote to an overdose, but on this point the author cannot speak with knowledge. All references stress the danger from intravascular bleeding of an overdose of heparin and for this reason heparin should never be used after the last four-hour figure.

The next anticoagulant given is dicoumarin, which has the main the advantage—it takes about four-eight hours to produce an effect. Its advantages are that it can be given by mouth and the its excretion following an overdose can be controlled.

The method of control is by transfusing fresh whole blood, of course.

may find food as usual; (3) difficulty in swallowing (probably caused by the gastroenteric lesion) is also observed sometimes, but not the commoner while the child was yet being nursed.

The general plan is, therefore, to continue food by mouth and by gavage, and to discontinue the former after this, right before the bowels will then have had time to take root and to discontinue vomiting in the position of the child.

Feeding in Infant and Treatment of Dysentery.—Doses of each drug have been made different—41 treatments required in early critical periods, have explained that doses in response are here given in the small table. Large but short, under careful clinical laboratory control are obviously imperative in the general disease. It is not a matter of a little or a lot but heavy doses good, but rather that a patient's life may be needlessly shortened unless an adequate dose is fully given and sustained. In this case the doses were:

Heparin	First day	62,000 units
	Second day	8,000 units
	Third day	8,000 units
	Fourth day	4,000 units
		Total 84,000 units in four days
Dysentery	Second day	500 mg.
	Third day	500 mg.
	Fourth day	400 mg.
	Fifth day	500 mg., added to the 400 mg. day
		Total 1,900 mg. in five days

Thus the standard adequate doses on the large side in case of the infant, of the one, but justified in this, and by the fact of response improve markedly in the case. These large doses, necessary in case of infant's pulmonary infection, should not be confused with the much smaller doses of the same agent, the treatment of the normal case of such a case.

As will be observed from the table and chart, the heparin appears to have little effect on the existing process of the blood. What is essential to show is the correction, even in an extraordinary case, and full of protection as long after all manifestations have been withdrawn. In this case the full continued for my house will always regard all drugs with dysentery. In response, clearly the results, but continued a systematic and laboratory control of this type of case, until the child again has returned to an average normal.

The full as position (in table) should be watched closely. The danger point reached at a degree of about 80 percent of normal. At this stage—if it has not already been done—all antiseptic drugs must be stopped and the patient must prepare to deal with post-acute hemorrhage. The patient should be held in the same, the same should be continued for that case of hemorrhage and blood disease should be readily available.

In the case of an untreated hemorrhage, drug should not be recommended, and a drug composed of once while drugs are being found. It must be borne in mind that plasma, contains nitrogen and water, and that this case illustrates the necessity of confining the case. No other plasma and

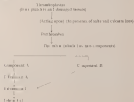
is the most dangerous (14, 15). This type of secondary process is not the common post-operative cause.

It was at one time thought that thrombosed thromboses occurred in a peripheral vein usually in the calf, against the wall became detached, and then site formed the typical acute embolus of the pulmonary arterial tree. Therefore some recent work tends to build up a theory. It postulates that a prethrombotic state exists, which can be detected by blood coagulogram. Under certain conditions a primary thrombotic focus, and the site of this may be a peripheral vein or in the pulmonary arterial tree, but in either case a precipitating factor is vascular stasis. The primary thrombotic mass fragments a loose mesh (in fact, there is still evidence of loose leg tucking in these cases). Therefore a primary thrombus is formed, it is built upon in situ by further layers of clotting blood. Thus the most part of the composition of a loose embolus may be regarded as a pulmonary arterial clot now gradually increasing in size until almost blocks the vessel. At such a point it is suggested that massive infarction occurs, and the patient will then present the well known picture of occluded pulmonary circulation.

Two main factors in causing the original thrombus are vascular stasis in association with an increased amount of fibrinogen B in the circulating blood. Fibrinogen B does not occur in normal plasma, but appears in quantities in the circulating blood when any reversible tissue reaction is present in the body. Such tissue reactions may follow extensive surgical trauma or an infection.

It is suggested that the success of anticoagulant therapy is in stopping the formation of the superadded clot which is deposited on and after original thrombus has formed.

Analysis of Normal Blood Clotting and of Thrombotic Formation. A scheme of Coagulation of plasma in normal blood clotting is as follows:





THEORETICAL FOUNDATIONS OF CONTROL

Along the way, we have seen how the theory of control systems can be used to design systems that are robust to uncertainties in the plant and to disturbances in the environment. This is the great value of control systems theory: it provides a systematic way of designing systems that are robust to uncertainties.

In addition to this, there are many other ways of designing control systems. For example, one can use the theory of optimal control to design systems that are optimal in some sense. Or one can use the theory of stochastic control to design systems that are robust to uncertainties in the plant and to disturbances in the environment. In all these cases, the theory of control systems provides a systematic way of designing systems that are robust to uncertainties.

Second, the original theory of control systems was based on the idea of the feedback control system. In this case, the output of the system is fed back to the input, and the system is designed so that the output follows the input. This is the basic idea of control systems theory, and it is the foundation of all control systems theory.

Third, there is a tendency to think of control systems as being designed to achieve a specific goal. This is not necessarily true. In fact, control systems can be designed to achieve a wide range of goals, and the theory of control systems provides a systematic way of designing systems that are robust to uncertainties.

Fourth, control systems theory is a branch of mathematics. It is a branch of mathematics that deals with the design of control systems. It is a branch of mathematics that deals with the design of control systems that are robust to uncertainties.

These experiments, the authors do not think it need glossing—of course K. has conducted a preliminary preliminary.

A second test, by still another method, is being carried on, based upon consultation with the pathologist. In the meantime it is felt that a standard method might well be made common to all nasal leprosy. The authors request for making the adopted method, but the hospital virus remedy must also be adequately studied. Considerable quantities are required where a new remedy tested for many days.

ANALYSIS OF CASES

My thanks are due to Surgeon Captain R. W. Mason, R. N., and Surgeon Commander T. H. Crockett, R. N., of the Royal Naval Medical School, for only in his paying this account for publication, as S. B. D. D. (L.) Series for the Laboratory, and to the staff of the Medical Director General's Department for the prompt supply of the necessary material in making the case. Also to Surgeon Captain E. B. Owen, R. N., the permission to record this case. My acknowledgments are due to the *British Journal of Surgery*, April 1920, for permission and to the *British Journal of Surgery*, April 1920, for permission.

(RECEIVED 1920)

Crockett, T. H., and Owen, E. B., (1920) *Brit. J. Surg.* 10, 140.

EPIDERMOLYSIS BULLOSA

BY

Surgeon Commander E. LEWIS, R. N.

This disease is characterized by a condition in which there is a disposition to the formation of blisters on the skin and a consequent chronic condition as the result of abrasion of the surface. The disease may be divided into the following types:

- (1) An inherited type.
- (2) A type in which the predisposition is inherited but the disease is caused by external causes, such as the use of soap.
- (3) A type in which the clinical signs appear in the first years of life.

A large proportion of cases give a family history, of the whole apparently may be transmitted by either parent. An exceptional case, which appears to have a predisposition to develop bullae, followed slight trauma, but no other reports of cases the condition is congenital and is not subsequently associated with various deformities, particularly of the nails and teeth. The causation of this abnormal development of the skin is unknown, but it has been suggested that it has features in common with certain and other allergic reactions.

The marks and blisters very common that on the skin appear, which does not usually become pustular. The changes which take place in the skin are similar to the changes in pemphigus vulgaris, but, in severe cases, the

that formed all squamous and papillary. There is abundant calcification in collagenous connective tissue and in all areas, from the young, 10 to 15, to a few mm. diameter, which may be interpreted as such.

The phenomenon of *Alveolaria* is a very interesting development, a class in the back of the enamel layer of the gingivae is often visible while after the application of pressure. It is the result of numerous invasions the lower layer of the skin and the Malpighian layer (Fig. 1) and is particularly common, especially in the lower teeth in other patients.

In the *Stomatophila* type there is an abnormal development of the side of the skin but also its appendages—the nails and not infrequently the teeth. *Hyperkeratosis* appears a relatively common feature in our type of the disease.

CASE HISTORY.

Case I—A mixed stomatophila and B.

This patient was seen in hospital complaining of blisters (Fig. 1) on his hands. It appeared that he had been unable to find large areas of skin of his arms and hands himself since a period of two years or so. The skin had all been treated in this way applied by the physician the skin of the arms and hands was greatly injured but there was no serious damage.

He had a previous, singular attack involving the hands about eight or ten years ago which cleared up quite quickly and possibly he had been under treatment with mercury at the time which might not only have caused the disease but cleared with possible cure. There was no other relevant previous or family history.

On examination—There were some blisters (small and umbilicated) large and small covering an area from the wrist to the middle of the hand. The skin covering the blisters was extremely tough. These blisters dried up and did not leave scars nor did the blisters contain fluid in common pustules. The blisters were at the time confined to the hands but the discomfort of the skin was also on the arms and a few on the chest and back. Nails and teeth were normal. Examination of other systems revealed no abnormalities. Urine normal. No hypodermis.

Blood Count	Diffusional Count
Red blood cells 4,600,000 per cmm.	Polymorphs 27 per cent.
White blood cells 9,000 per cmm.	Lymphocytes 61 per cent.
Monocytes 60 per cent. (total)	Monocytes 1 per cent.
Eosinophils 0.00	Eosinophils 1 per cent.

Stomach—Normal—Full abdominal dulcified.

Chest—Normal—No abnormality on auscultation. No formation of nodules.

Heart—Normal.

Genital—Normal.

Other—Normal.

A small area of skin on the back of the hand was tested fairly hard a blower formed in eight hours.

Case II—A, mixed.

This patient stated that he, himself, rarely, seriously, was painful but could not remember the certain before that. He thought he had a trouble in a third degree, pain, up to 1910 he was a team driver and had trouble with blisters on his hands when long, heavy work, but on trouble with nodules. On passing the hospital through by a special treatment was given, he managed to avoid involving with a good, but present day when it is now become apparent that the was quite manageable now but the doctor's possible way to keep blisters healthy. After developmental conditions with and



(continued)

Arrows on opposite sides of thumb-pointing finger (left) indicate in Case 1 (left) right hand is normal and left hand is from histamine treatment and is completely swollen (finger 1) (left) almost 2) (right) (right).

It is perhaps notable that the time after in Case 1 indicated, when we were notified this, after time given, true treatment. For it is stated in the literature that some cases resolve spontaneously.

DISCUSSION

There are thoughts considered to be examples of epidermal carcinoma in Case 1, belonging to a rare variety, in which the disease develops in adult life. In this case, also, spontaneous recovery from one attack has occurred, with a high rate of recovery.

We thank our doctor, Surgeon Peter Edward D. D. Brownfield, D.F.R.C., for his permission to publish these cases and to the British Medical Journal for permission to reprint Case 1.

GARCINOMA OF PROSTATE WITH SECONDARIES IN BONES

BY

Surgeon Commander T. L. CREAVE, R.N.

Case Report. A patient, aged 57.

The patient had been healthy, with no history of disease, but came to me with a rapidly rising PSA (April 1968) when his first prostatectomy was performed.

the patient's teeth were in good condition. The patient was referred to the University of Illinois Dental Hospital, Chicago, for treatment. In May, 1949, an orthodontic examination was made, showing moderate crowding, no malocclusion, a Class II malocclusion, and a mandibular crossbite. The patient was referred to the University of Illinois Dental Hospital for orthodontic treatment. The patient was treated with a removable appliance, and the treatment was completed in 1950. The patient was then referred to the University of Illinois Dental Hospital for orthodontic treatment. The patient was treated with a removable appliance, and the treatment was completed in 1950. The patient was then referred to the University of Illinois Dental Hospital for orthodontic treatment. The patient was treated with a removable appliance, and the treatment was completed in 1950.

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This is a good example of the well-regarded, though relatively rare condition of malignant disease of the prostate causing no symptoms of itself.



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The authors are due to Nigerian Petroleum Laboratories, F. H. K. and H. A. and others, for the valuable assistance in the laboratory.

A 2006 PISA study

10

Barbara Lindemann, E. J. STEUBER, JR.

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[illegible][illegible]

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

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Figure 1 shows the results of the first experiment. The top trace shows the ECG of the patient. The second trace shows the ECG of the patient during the first 10 min of the experiment. The third trace shows the ECG of the patient during the last 10 min of the experiment.

The ECG of the patient during the first 10 min of the experiment shows a normal sinus rhythm. The ECG of the patient during the last 10 min of the experiment shows a normal sinus rhythm.

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Figure 1. ECG of the patient.

The ECG of the patient during the first 10 min of the experiment shows a normal sinus rhythm. The ECG of the patient during the last 10 min of the experiment shows a normal sinus rhythm.

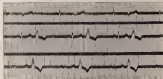


Fig. 1. ECG of the patient. The top trace shows a normal sinus rhythm. The second trace shows a normal sinus rhythm. The third trace shows a normal sinus rhythm. The bottom trace shows a normal sinus rhythm.

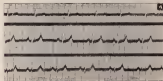


Fig. 2. ECG of the patient during the first 10 min of the experiment. The top trace shows a normal sinus rhythm. The second trace shows a normal sinus rhythm. The third trace shows a normal sinus rhythm. The bottom trace shows a normal sinus rhythm.

THE LUNGS

Pulmonary hypertension is suggested, since the pulmonary circulation is greatly congested. The mechanism of retention in the most prominent, and in certain cases fatal, is where the effect of various small arteries, as assumed at times, is so that the second pulse wave could not be cleared at the exit.

Congestion may be associated with distended capillaries. It also suggests heart block and with multiple embolizations. The latter can be distinguished from heart block by their grossness, and when weak enough to flow, it seems to produce a second heart sound (as in the case at hand). The latter phenomenon is believed to be due to failure of the aortic valves to open with closure, the excessive retrograde flow, and then return is facilitated by a pulmonary heart, but with heart block an unusually long pause is first noted.

Extremities in the absence of a compensating mechanism of a cardiac type are characteristically exposed. Where such a lesion is present, this type served this purpose as a substitute in the direct continuation of the heart, and the pressure is that of the lesion themselves.

The prognosis is made on which embolizations are periodically present as long groups of successive lesions is first probably known (Lewin, 1941) when in these cases the heart's energy expenditure may be increased.

LITERATURE

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REPLANTATION OF TEETH

BY

Sergeant Commander (R) P. S. TURNER, R.N.

REPLANTATION of teeth is the operation of replacing in the socket a tooth which has been extracted or has been lost. The operation is not uncommon in the United States of America, but does not appear to be much in vogue in this country.

In quoting these cases it is not intended to advocate the practice, but merely to point out that it can be so useful as a last resource, when the patient is faced on losing the tooth at all costs.

CASE 1. (From British W.D.N.S. report 22)

On 17th September, 1940, the patient, a private, with no previous dental treatment, had a tooth which he found was loose, slightly mobile, and almost certainly a lower premolar, which he extracted. On 24th September, he was again seen, and the tooth was replanted under chloroform anaesthesia. The operation was successful, but the patient could not place it in his mouth. It is not yet known whether the tooth was replanted in the socket, and the results are still awaited, but the patient is well.

On 27th October, 1940, the patient, a private, had the left mandibular premolar replanted. On 27th November, 1940, the patient, a private, had the right mandibular premolar replanted.

The above patients are still in the service and are considered to be successful.



Fig. 7. Root canal filling with
bioceram composite.



Fig. 8. Root canal filling with
bioceram composite.

Fig. 9. X-ray of tooth 11.

The patient received the following treatment: a periodontal therapy, a complete crown/bridge treatment, a root canal treatment of tooth 11 and a root canal filling with bioceram composite. The patient was informed about the procedure and the expected outcome. The patient was also informed about the importance of maintaining good oral hygiene and the need for regular dental check-ups. The patient was also informed about the importance of avoiding smoking and alcohol consumption. The patient was also informed about the importance of avoiding hard foods and sticky foods. The patient was also informed about the importance of avoiding teeth grinding and clenching. The patient was also informed about the importance of avoiding using teeth as tools. The patient was also informed about the importance of avoiding using teeth to bite on hard objects. The patient was also informed about the importance of avoiding using teeth to open packages. The patient was also informed about the importance of avoiding using teeth to hold objects. The patient was also informed about the importance of avoiding using teeth to hold papers. The patient was also informed about the importance of avoiding using teeth to hold pens. The patient was also informed about the importance of avoiding using teeth to hold keys. The patient was also informed about the importance of avoiding using teeth to hold anything else. The patient was also informed about the importance of avoiding using teeth to hold anything that could damage the teeth or the filling.



Fig. 9.



Fig. 10.

Cover 111-40, age 1-40.

On the 18th January, 1-40, and on the 18th January, 1-40, the patient was informed about the importance of maintaining good oral hygiene and the need for regular dental check-ups. The patient was also informed about the importance of avoiding smoking and alcohol consumption. The patient was also informed about the importance of avoiding hard foods and sticky foods. The patient was also informed about the importance of avoiding teeth grinding and clenching. The patient was also informed about the importance of avoiding using teeth as tools. The patient was also informed about the importance of avoiding using teeth to bite on hard objects. The patient was also informed about the importance of avoiding using teeth to open packages. The patient was also informed about the importance of avoiding using teeth to hold objects. The patient was also informed about the importance of avoiding using teeth to hold papers. The patient was also informed about the importance of avoiding using teeth to hold pens. The patient was also informed about the importance of avoiding using teeth to hold keys. The patient was also informed about the importance of avoiding using teeth to hold anything else. The patient was also informed about the importance of avoiding using teeth to hold anything that could damage the teeth or the filling.

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Fig. 1



Fig. 2

Figure 1 shows a close-up of a person's face, possibly a woman, looking down or away from the camera. Figure 2 shows a close-up of a person's face, possibly a woman, looking down or away from the camera.

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1. The following is a list of the names of the persons who have been elected to the office of the President of the Association for the Study of the History of the United States, for the year 1914.

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1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets. The second step is to analyze the data. The third step is to develop a plan. The fourth step is to implement the plan. The fifth step is to evaluate the results.

Figure 10. The effect of the initial concentration of the monomer on the polymerization of **1** in the presence of **2** at 60 °C.

As a result of the above, the following theorem can be proved.

1. The first step is to identify the problem. This involves understanding the current situation and the goals that need to be achieved.

Fig. 1. Geometry of the problem. \mathbf{r} and \mathbf{r}' are the position vectors of the observation and source points, respectively, and \mathbf{r}_0 is the position vector of the origin of the coordinate system.

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100											

Team at the Service

TRIST OF HIS MAJESTY KING GEORGE VI TO ROYAL NAVAL
HOSPITAL - CHS PLAN

He was a member of establishments in the Navy Command H.M. Wagon. The King visited the Royal Naval Hospital (Oxford) on 1st Feb. 1945. As commander by Wagon Michael Johnson (Prince's Commission) 1. Captain by Harold Campbell R.N. (Engineer) and General by Harold Burroughs A.C. B. A.M. D.S.O. 2. Commander by Lord The Lord Sir. General was created at the

of the numerous "Senior Officers' Home Visiting" U. S. Veterans' & R. N. V. Medical Officers in this area.

They presented to the Senior Officers' Home Visiting the sick, officers' day rooms, which several officers had been assembled. A visit was then made to the surgical wards, where the "Majors" spoke to a number of patients. After talking with the Hospital Medical Staff, and seeing several patients and staff of the hospital, an informal staff

Meeting was held on 11/15/46. The "Majors" King Edward VII, the Royal Naval Hospital, and the "Majors" were each wearing a uniform.

SPORT

ROYAL NAVAL HOSPITAL, HAZEL

FOOTBALL

Over 100 football matches during the season were seen and over 1000 of the footballers of the Hospital. We had little difficulty in seeing the 11 and the 100 footballers to get 100. and although the season of the Junior 11 (Royal 11) was a good one, the footballers are given a lot of time in training the Junior 11 (Royal 11) Football Cup in the first position in competition. We had 11 (Royal 11) Football 11 (Royal 11) in the first position in training. It is these footballers' football competitions which really bring out the best in the players and operators and their reception has been eagerly received throughout the State.

The football season is again upon us and with a lot of new blood, we have seen 100 footballers in a football season. The football competition has been continued to take place at 11 (Royal 11) in November 1946 and there are already 100 footballers among the football players who hope to represent Hazel.

A popular game here at the moment is Rugby. A football game made two games and a few matches were played, although the weather is not quite a number of the footballers. However, there is now a large lot of prospective players, a young men's football and a good football has been carefully prepared. It is hoped that this year will become increasingly popular so that we may find a number of footballers. The footballers are already talking about an inter-hospital rugby competition being arranged some time in the not too distant future.

CROQUET

The cricket season is also upon us and with a lot of new blood, we have seen two matches, a cricket game has been played and the cricket has been of a fairly good standard. We managed to win the inter-hospital cricket trophy this year and our only loss was our defeat by Chatham in 1947. It is hoped that we shall be able to visit Chatham Hospital for the next competition.

WAGON PULL

For the first time in the history of Royal Naval Hospital, Hazel a water polo team has been formed by the medical and nursing staff. In spite of the advancing years of the majority of the players (average age 55), the matches

on the Westward water polo league has been played with great enthusiasm and credit must be given for the way they have tackled teams in opposition to themselves. Up until the 1st September 1939 the league position was with out of ten having played 11 games—winning two—drawing four and losing six.

THROW

The Hospital football team, just placed on the Medical News, but they are unable all to play at the same time. Had they been able to do so we would have had not less considerable distance of the final of the inter-establishment football competition. In the first match we beat the Northern Hospital and Hesper Hospitals 2-0. This time, and in the second round lost by the narrowest margin of one goal to H. W. S. Dicks of 2-1.

An August bank holiday, an Autumn Tournament was held at the Hospital with an entry of forty players. Unfortunately rain caused the tournament to be abandoned.

Two of our Nations—New Team Newton and West Marine Valley, have been chosen to represent the G. A. R. N. S. N. in the inter-nations tournament to be played on the 11th September.

ROYAL NAVAL HOSPITAL, PORTLAND

For three natural sports meeting, between the medical and nursing staffs of the Royal Naval Hospital Portland was held on the 16th June 1939 and on an occasion when good luck was with and against. But weather had conspired this impeded the work of preparing for the great occasion, and even so should the best nature hospital doctors and nurses would there not to make the proceedings. However, shortly before seven hours and no time wasted to the main process of the opening ceremony, the sun cleared the misty drizzle and the sun appeared to shine magnificently throughout the afternoon and early evening. As if to reward us that his blessings were not to be taken lightly on his part. Illumination was resumed at eight and we continue to spend at the sports ground of the afternoon.

Among the distinguished visitors was Surgeon Vice Admiral Sir H. M. P. Collins, Medical Director General of the Navy, the Major and Messieurs of Gillingham (Gillingham and Vice T. P. Dwyer) and Vice Admiral Medley, Admiral Superintendent H. W. Dwyer, Captain. Among the hosts the independent nature, perhaps, but nevertheless a doctor were about two hundred and fifty children who departed themselves from the centre, considerable sides on some games and football and football, some with an enthusiasm that was a joy to watch and a sign that such have found the joys of energy of their contemporary, sports and life.

The competitors consisted of teams formed by the Medical, Chief and Petty Officers, L. R. A. and S. B. A., and P. S. B. A., and the year we selected a team of our colleagues from the rank, Queen's Royal Naval Band. The day was, despite the rain, presented by Surgeon Vice Admiral C. E. Cameron was won by the Professional rank, with a triumph for the

weight 110 lb. maximum, with a range of 20 pounds. It is that range which the 15 lb. bonus, which all prize.

P.S. to V. Black, you the Victor Lachman To the sailing and the earth. 200 yards and the long jump. The raising of the 100 yard and the 100 yard and the long jump. It is that range which the 15 lb. bonus, which all prize.

As in previous years the Digby's had Paper gave another attractive performance of Scottish music and dance. Their colorful costumes gleaming in the glorious sunshine and blending with the surrounding flower beds, bushes and green belched with flags, provided a spectacle that our guests will surely remember.

At the conclusion of the presentation of the prize for the C. E. Gosses the Surgeon Rear Admiral expressed his thanks to the organizers, the competitors, and the spectators for their support. The Digby's had Paper the Surgeon's Head, H.M.S. *Amethyst* for their entertainment, and all who helped to make the event a success. He also referred to the fact that in the near future he will be leaving the Royal Naval Hospital. This is the third year we have had our sports here. In fact, and contrary to expectations it has turned out a lovely afternoon. I am sure I shall not be here next year for the sports unless the weather is very good and then of course I shall come down here with the greatest of pleasure.

Three cheers were given for Surgeon Rear Admiral and Mrs. Gosses and with that another Royal Naval Hospital Christmas sports day came to an end, and many a tired and grubby youngster went wearily home to bed.

All patient cricket teams and indoor sports have been included and representative teams from Officers' Messes, Staff, Junior Staff, Probationers and Prisoners have taken part in all or some of these competitions.

CRICKET

The Daily Cup is completed for and has that year been won by the R.N.H.P. The Mess after very hard play. The games have been exciting and although the standard of play is not always of the highest, the energy and compensation in some measures for the lack of skill. On four occasions the result has been decided by less than 10 runs.

TABLET

The inter mess teams competition is now the season, and although the Officers have not put a team in the fixture and V.A.D.s have and many enjoyable games have been played.

The summer time is still filled by these events and it is hoped to make available plenty of activity for the winter months. For this we have competitions for the indoor sports which covers billiards, chess, bridge, cribbage and table tennis. The prisoners have been busy on nearly every occasion in previous years and on the occasions when they play the cricket matches definitely show an upward trend. An effort was made last year to produce some outdoor activity during the winter months but it failed through

back to support—perhaps the winter had something to do with this—also will be tried again this year. It is an *Inter-Med. Challenge* to play in which a team may challenge any other at almost every game. The trophy is to be held by the one which only makes a challenge is unsuccessful. The games included football, hockey, basketball, tennis, badminton, and tennis. The Hospital of course produced teams for cricket, football and hockey, for tennis competitions, and did quite well this year against local clubs in Kent.

FOOTBALL TROPHY, CHARTERED AND PORTSMOUTH TOWNSHIPS

This winter past tournament has been going now for some years. It started in 1912 after lengthy correspondence between the three sports associations. It has been the cause of considerable enjoyment to the staff in all their departments and the friendly rivalry between the competing teams and the sporting spirit shown in all the matches has been exemplary.

The games from 1912 to 1928 were held at Heston, and the Charlton and Plymouth teams travelled there for the games. A draw was made to produce a list for the first year, the winner of the first game playing the remaining team for the second trophy.

In 1927 the games were recommenced at Heston and the new rules now state that the tournament for both cricket and football shall be held on each hospital in turn, the home team getting the "bye" in each case. Therefore the games were played at Plymouth this year, and Charlton will be the hosts in 1928. A review of the results to date are as follows:

LONDON		PORTSMOUTH	
Wyn vs. Charlton	1912	Wyn vs. Charlton	1928-29
Wyn vs. Charlton	1913	Wyn vs. Charlton	1929-30
Wyn vs. Charlton	1914	Wyn vs. Charlton	1930-31
Wyn vs. Heston	1915	Wyn vs. Heston	1931-1932
Wyn vs. Heston	1916	Wyn vs. Charlton	1932-33
Heston and Charlton	1917	Wyn vs. Charlton	1933-34
Wyn vs. Heston	1918	Wyn vs. Heston	1934-35
Wyn vs. Heston	1919	Wyn vs. Heston	1935-36
Wyn vs. Charlton	1920		
Wyn vs. Heston	1921		

It will be seen that in 1928-29 the London team was the victor in all the competitions, and it is hoped that the new year and spirit that enters all these sports will bring about a better result than in 1928-29.

ROYAL NAVAL HOSPITAL, PLYMOUTH

FOOTBALL

A league team was formed in R.N. Hospital Plymouth some years ago and has always given a good account of itself. This winter has the team been as successful as during the 1947-48 season. The medical profession is so short of players and supporters alike and under the leadership and guidance of Surgeon Lieutenant Commander R. W. Topley and P. A. Williams, R.N., and

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1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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Temperature: 40°C; 4 hours; 60°C; 1 hour; 80°C; 1 hour

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Region	Country	Year	Value	Unit
North America	USA	1990	100	100
Europe	Germany	1990	100	100
Asia	Japan	1990	100	100
Africa	South Africa	1990	100	100
Oceania	Australia	1990	100	100

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^a Values are means ± standard deviation.

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OLIVER ALEXANDER ROYAL NAVAL VESSELS SERVICE

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Model	Model	Variable	Scoring	Scale	Reference	Interpretation
Model 1	Model 2	Variable	Scoring	Scale	Reference	Interpretation

[illegible]

Figure 7.10. Plot of $\ln(\text{rate})$ vs. $1/T$ for the decomposition of N_2O at various pressures. The slope is $-5.0 \times 10^4 \text{ K}$.

1. The first two items are the same as in the previous version of the scale.

THE LITERARY AND ARTS COUNCIL

Country	Year	Population (millions)	Urban population (millions)	Urban population (%)
Algeria	1990	10.0	4.0	40.0
Algeria	2000	11.0	5.0	45.5
Algeria	2005	11.5	5.5	47.8
Algeria	2010	12.0	6.0	50.0
Algeria	2015	12.5	6.5	52.0
Algeria	2020	13.0	7.0	53.8
Algeria	2025	13.5	7.5	55.6
Algeria	2030	14.0	8.0	57.1
Algeria	2035	14.5	8.5	58.6
Algeria	2040	15.0	9.0	60.0
Algeria	2045	15.5	9.5	61.3
Algeria	2050	16.0	10.0	62.5
Algeria	2055	16.5	10.5	63.6
Algeria	2060	17.0	11.0	64.7
Algeria	2065	17.5	11.5	65.7
Algeria	2070	18.0	12.0	66.7
Algeria	2075	18.5	12.5	67.6
Algeria	2080	19.0	13.0	68.4
Algeria	2085	19.5	13.5	69.2
Algeria	2090	20.0	14.0	70.0
Algeria	2095	20.5	14.5	70.7
Algeria	2100	21.0	15.0	71.4
Algeria	2105	21.5	15.5	72.1
Algeria	2110	22.0	16.0	72.7
Algeria	2115	22.5	16.5	73.3
Algeria	2120	23.0	17.0	73.9
Algeria	2125	23.5	17.5	74.5
Algeria	2130	24.0	18.0	75.0
Algeria	2135	24.5	18.5	75.5
Algeria	2140	25.0	19.0	76.0
Algeria	2145	25.5	19.5	76.5
Algeria	2150	26.0	20.0	76.9
Algeria	2155	26.5	20.5	77.3
Algeria	2160	27.0	21.0	77.8
Algeria	2165	27.5	21.5	78.2
Algeria	2170	28.0	22.0	78.6
Algeria	2175	28.5	22.5	78.9
Algeria	2180	29.0	23.0	79.3
Algeria	2185	29.5	23.5	79.7
Algeria	2190	30.0	24.0	80.0
Algeria	2195	30.5	24.5	80.3
Algeria	2200	31.0	25.0	80.6
Algeria	2205	31.5	25.5	80.9
Algeria	2210	32.0	26.0	81.3
Algeria	2215	32.5	26.5	81.5
Algeria	2220	33.0	27.0	81.8
Algeria	2225	33.5	27.5	82.1
Algeria	2230	34.0	28.0	82.4
Algeria	2235	34.5	28.5	82.6
Algeria	2240	35.0	29.0	82.9
Algeria	2245	35.5	29.5	83.1
Algeria	2250	36.0	30.0	83.3
Algeria	2255	36.5	30.5	83.6
Algeria	2260	37.0	31.0	83.8
Algeria	2265	37.5	31.5	84.0
Algeria	2270	38.0	32.0	84.2
Algeria	2275	38.5	32.5	84.4
Algeria	2280	39.0	33.0	84.6
Algeria	2285	39.5	33.5	84.8
Algeria	2290	40.0	34.0	85.0
Algeria	2295	40.5	34.5	85.2
Algeria	2300	41.0	35.0	85.4
Algeria	2305	41.5	35.5	85.6
Algeria	2310	42.0	36.0	85.7
Algeria	2315	42.5	36.5	85.9
Algeria	2320	43.0	37.0	86.0
Algeria	2325	43.5	37.5	86.2
Algeria	2330	44.0	38.0	86.4
Algeria	2335	44.5	38.5	86.5
Algeria	2340	45.0	39.0	86.7
Algeria	2345	45.5	39.5	86.8
Algeria	2350	46.0	40.0	86.9
Algeria				

1. *Chlorophyll a* (Chl *a*) was determined by the method of Arar and Collins (1971) using a spectrophotometer.

to the Commission by letter of 1.5.31, the Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

14. On 1.5.31, the Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission. The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

15. On 1.5.31, the Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission. The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

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(1.5.31) (1931) (1.5.31)

1867 — Re: The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

(1.5.31) (1931) (1.5.31)

1868 — Re: The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

1869 — Re: The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

1870 — Re: The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

1871 — Re: The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

1872 — Re: The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

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1873 — Re: The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

(1.5.31) (1931) (1.5.31)

1874 — Re: The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

1875 — Re: The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

1876 — Re: The Commission, in accordance with paragraph 2 of the said letter, has decided to refer the matter to the Commission.

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deliberate. The authors of the study found that the most common reasons for the use of force were the presence of a weapon, the presence of a group, and the presence of a crowd. The authors also found that the use of force was more likely to be used in the presence of a crowd than in the presence of a group or a weapon.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

The first of these is the question of the nature of the data. It is assumed that the data are of the type which can be analyzed by the methods of the present paper. This is a reasonable assumption in many cases, but it is not always true. For example, if the data are of the type which can be analyzed by the methods of the present paper, then the results of the analysis will be valid. If the data are of the type which cannot be analyzed by the methods of the present paper, then the results of the analysis will not be valid. This is a very important point to remember when using the methods of the present paper. It is essential to know the nature of the data before using the methods of the present paper. If the data are of the type which can be analyzed by the methods of the present paper, then the results of the analysis will be valid. If the data are of the type which cannot be analyzed by the methods of the present paper, then the results of the analysis will not be valid. This is a very important point to remember when using the methods of the present paper. It is essential to know the nature of the data before using the methods of the present paper.

1911 published *Conditions of and Improvements of Ratings* (Philadelphia, W.B. Ewing) and *Notes on the Principles of Procedure in Rating the Number of Conditions*.

(1911) *Journal of the American Statistical Association*, 10, 1-10.

The first of these is the question of the nature of the data. It is assumed that the data are of the type which can be analyzed by the methods of the present paper. This is a reasonable assumption in many cases, but it is not always true. For example, if the data are of the type which can be analyzed by the methods of the present paper, then the results of the analysis will be valid. If the data are of the type which cannot be analyzed by the methods of the present paper, then the results of the analysis will not be valid. This is a very important point to remember when using the methods of the present paper. It is essential to know the nature of the data before using the methods of the present paper.

GENERAL INFORMATION ON CHINA'S SPECIAL PROVISIONS FOR WOMEN

28. When the 1949 Chinese R.N.P. is formed, the Government of the United Nations Committee on the Status of Women will be invited to send a special mission to the National People's Republic of China to study the situation of women in the National People's Republic of China and to report to the United Nations Committee on the Status of Women.

29. It is a condition of the Special Provisions that the Government of the United Nations Committee on the Status of Women will be invited to send a special mission to the National People's Republic of China to study the situation of women in the National People's Republic of China and to report to the United Nations Committee on the Status of Women.

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GENERAL INFORMATION ON CHINA'S SPECIAL PROVISIONS FOR WOMEN

35. When the 1949 Chinese R.N.P. is formed, the Government of the United Nations Committee on the Status of Women will be invited to send a special mission to the National People's Republic of China to study the situation of women in the National People's Republic of China and to report to the United Nations Committee on the Status of Women.

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GENERAL INFORMATION ON CHINA'S SPECIAL PROVISIONS FOR WOMEN

38. The Government of the United Nations Committee on the Status of Women will be invited to send a special mission to the National People's Republic of China to study the situation of women in the National People's Republic of China and to report to the United Nations Committee on the Status of Women.

39. The Government of the United Nations Committee on the Status of Women will be invited to send a special mission to the National People's Republic of China to study the situation of women in the National People's Republic of China and to report to the United Nations Committee on the Status of Women.

When it is found that a child is exposed to the highly infectious disease, it is under a legal duty to inform the child's parents, and, if the child is not a minor, to inform him or her. The Health Service Commissioning, as well as local authorities, will also be notified of the child's exposure to the disease (13 and 14).

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Let J run in $\mathbb{Z}/p\mathbb{Z}$ as in the situation in (iv). If $\mathcal{O}_K \subset \mathbb{Z}/p\mathbb{Z}$ and $\mathcal{O}_K \not\subset \mathbb{Z}/p\mathbb{Z}$ are possible, then $\mathcal{O}_K \subset \mathbb{Z}/p\mathbb{Z}$ and $\mathcal{O}_K \not\subset \mathbb{Z}/p\mathbb{Z}$ are possible. If $\mathcal{O}_K \subset \mathbb{Z}/p\mathbb{Z}$ and $\mathcal{O}_K \not\subset \mathbb{Z}/p\mathbb{Z}$ are possible, then $\mathcal{O}_K \subset \mathbb{Z}/p\mathbb{Z}$ and $\mathcal{O}_K \not\subset \mathbb{Z}/p\mathbb{Z}$ are possible.

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1. *Journal of the American Medical Association*, 2000; 284: 2689-2695.

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² The amount of the Collier Stone Medal for 1979 will be awarded to a woman. I am also looking forward to the National Historical Commission's selection of the recipient.

¹ For purposes of the computation of the small business credit, the Federal Government is an "other State" under Regs. 2634-4(d)(4) and 2634-5(c)(4) and is not a "State" under the Code. See, e.g., Rev. Rul. 80-100, 1980-1 CB 184.

1. The present government of the region has each village and community under its own administration. The first and largest village is the following:

2. The present government of the region has each village and community under its own administration. The first and largest village is the following:

3. The present government of the region has each village and community under its own administration. The first and largest village is the following:

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Appendix

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